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美国化学文摘社北京代表处

SciFinder在医药学科中的应用

2021年3月

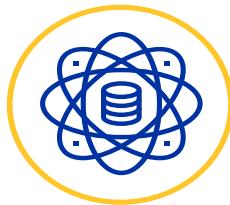


提纲

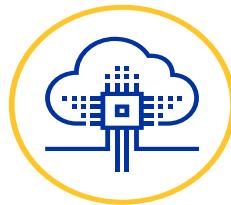
- 为什么需要美国化学文摘社
- SciFinder简介及检索方式
 - 文献检索（PatentPak及MethodsNow-ANA的应用）
 - 物质检索
 - Markush检索
 - 反应检索（MethodsNow-SYN的应用）
 - SciPlanner
- SciFinder常见问题及解决

美国化学文摘社(CAS)隶属美国化学会(ACS)，致力于追踪、收录、标引科学信息

- 拥有超过110年的经验；创立权威化学索引《化学文摘》(CA)
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- 提供各种科学信息和相关技术产品与服务
- 协助创新和保护创新，助力于解决科研方面的难题与挑战



UNPARALLELED
SCIENTIFIC CONTENT



SPECIALIZED
TECHNOLOGY



UNMATCHED
HUMAN EXPERTISE

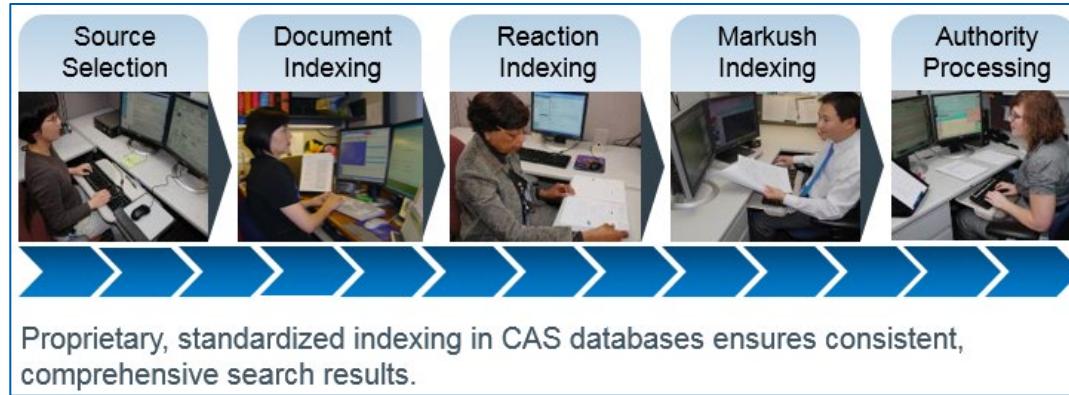


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- 生物化学:
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CAS科学家利用人类智慧对公开内容进行揭示，使相关信息更容易被挖掘



- 检索词的同义词拓展：解决不同科研人员由于教育背景、语言、表达习惯不同导致的对同一个技术语描述的差异。
- 用名称、分子式等检索化合物，会导致检索不全、不准的问题。CAS RN很好地解决了该问题，帮助检索人员实现精准定位化合物的目标。
- 利用SciFinder中的标引信息（Index Term, CAS RN, CAS Role），提高效率，启发思路。

CAS各类科学信息研究工具



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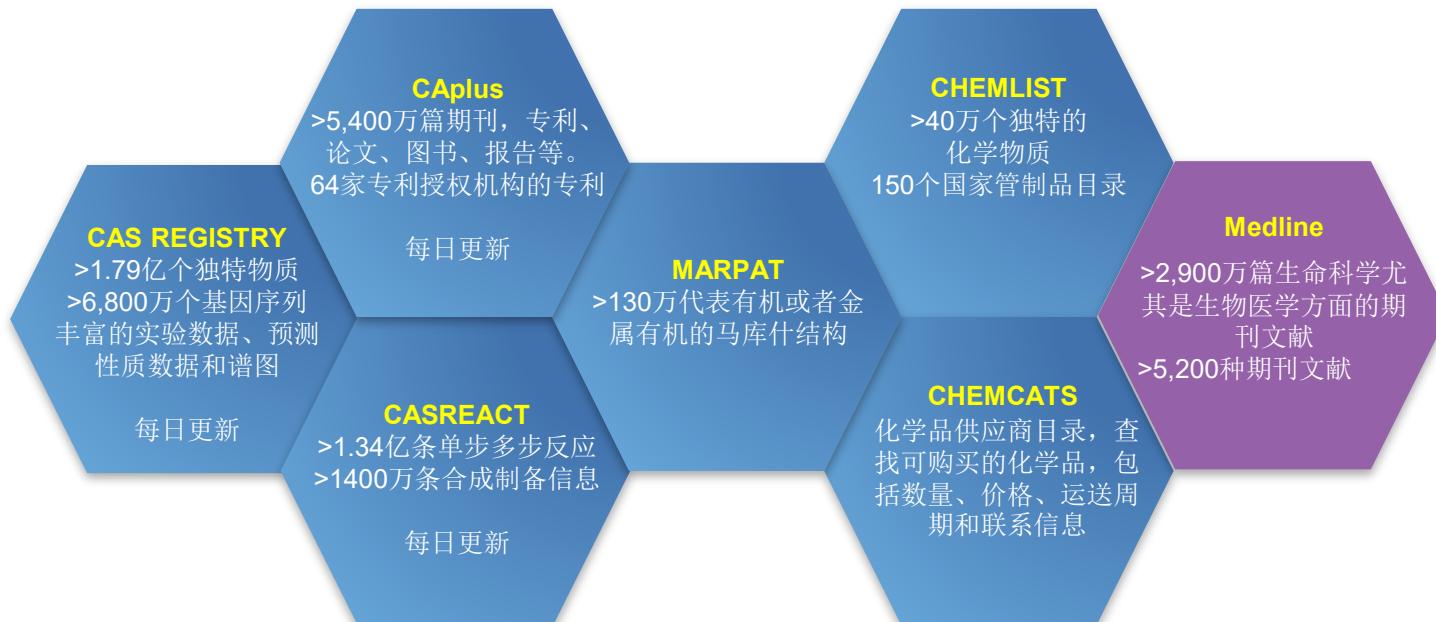


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提纲

- 美国化学文摘社简介
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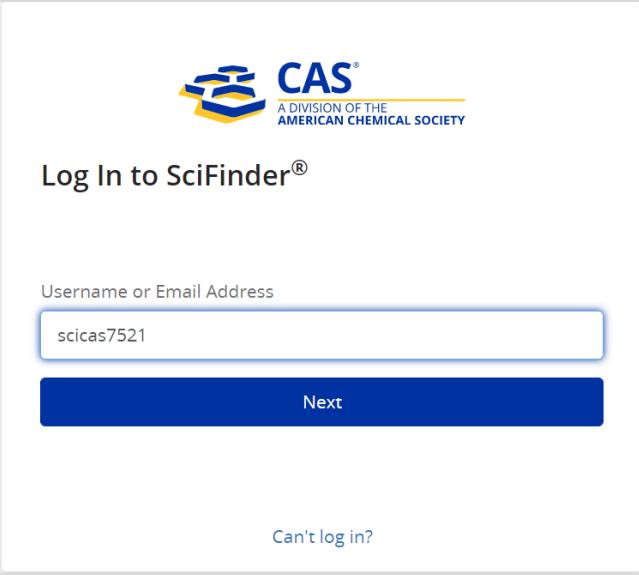
SciFinder覆盖的数据库



SciFinder是提供经CAS科学家人工标引内容的工具型数据库。

Sources: <https://www.cas.org/about/cas-content>

SciFinder登录网址: <https://SciFinder.cas.org>

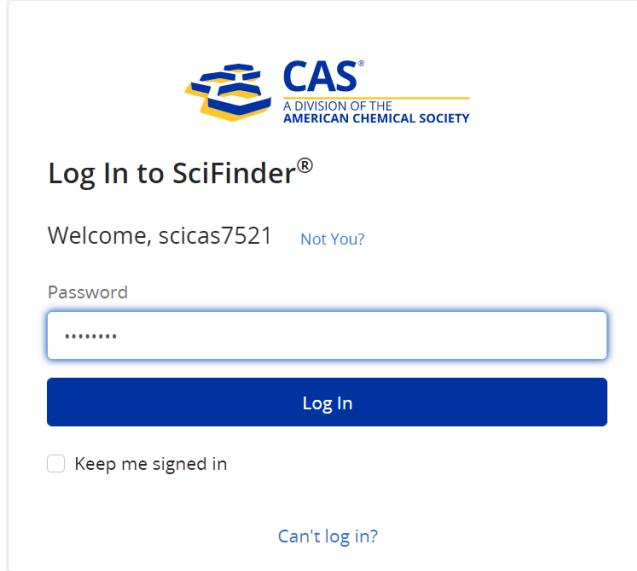


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scicas7521

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SciFinder主界面

工具栏

检索入口

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定题追踪

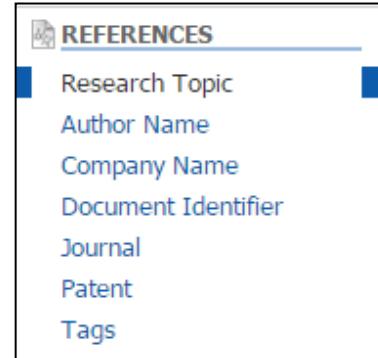
检索完, 请点击退出

The screenshot shows the SciFinder search interface. On the left, there's a sidebar with categories: REFERENCES (Research Topic, Author Name, Company Name, Document Identifier, Journal, Patent, Tags), SUBSTANCES (Chemical Structure, Markush, Molecular Formula, Property, Substance Identifier), and REACTIONS (Reaction Structure). The central search area has a 'Search' button and an 'Advanced Search' link. To the right, there's a 'SAVED ANSWER SETS' section listing items like CSF1R, jmc, EP 19870107847, Dacbtasvir-1, etc., and a 'KEEP ME POSTED' section. A purple speech bubble at the top right says '检索完, 请点击退出' (After searching, please click to exit).

SciFinder检索——文献检索

■ 文献检索方法

- 主题检索
- 作者名检索
- 机构名检索
- 文献标识符检索
- 期刊名称和专利信息（公开号，申请号等）
- 从物质，反应获得文献



■ 检索策略推荐

- 关注某特定领域的文献：主题检索
- 关注物质有关的文献：先获得物质，再获得文献
- 关注某科研人员的文献：作者名检索
- 关注某机构科研进展：机构名检索

文献检索——主题

主题检索：中药治疗新冠肺炎

检索式：Chinese Medicine **in** COVID-19

The screenshot shows the SciPlanner interface. At the top, there are three tabs: 'Explore ▾', 'Saved Searches ▾', and 'SciPlanner'. On the left, a sidebar has two sections: 'REFERENCES' (with options like Research Topic, Author Name, Company Name, Document Identifier, Journal, Patent, Tags) and 'SUBSTANCES' (with options like Chemical Structure, Markush). The main area is titled 'REFERENCES: RESEARCH TOPIC ?' and contains a search bar with the query 'chinese medicine in COVID-19'. Below the search bar, under 'Examples:', are two entries: 'The effect of antibiotic residues on dairy products' and 'Photocyanation of aromatic compounds'. At the bottom of this section is a blue 'Search' button, followed by a link to 'Advanced Search'.

关键词之间用介词连接：
in, with, of...

主题检索的候选项

Explore ▾ Saved Searches ▾ SciPlanner

Research Topic "chinese medicine in COVID-19"

REFERENCES ?

Select All Deselect All

1 of 8 Research Topic Candidates Selected

	References
<input type="checkbox"/> 54 references were found containing "chinese medicine in COVID-19" as entered.	54
<input checked="" type="checkbox"/> 1096 references were found containing the two concepts "chinese medicine" and "COVID 19" closely associated with one another.	1096
<input type="checkbox"/> 1639 references were found where the two concepts "chinese medicine" and "COVID 19" were present anywhere in the reference.	1639
<input type="checkbox"/> 4176 references were found containing the concept "chinese medicine", and either the concept "COVID" or the concept "19". The concepts found were closely associated with one another.	4176
<input type="checkbox"/> 8396 references were found containing the concept "chinese medicine", and either the concept "COVID" or the concept "19". The concepts found were present anywhere (perhaps widely separated) within the reference.	8396
<input type="checkbox"/> 341298 references were found containing the concept "chinese medicine".	341298
<input type="checkbox"/> 106580 references were found containing the concept "COVID 19".	106580
<input type="checkbox"/> 1965032 references were found containing either the concept "COVID" or the concept "19".	1965032

Get References

- “Concepts”表示对主题词做了同义词的扩展
- “Closely associated with one another”表示同时出现在一个句子中
- “were present anywhere in the reference”表示同时出现在一篇文献中

按被引次数排序——Citing References

Research Topic "chinese medicine in COVID-19" > references (1022)

获得文献中的物质和反应信息

REFERENCES

Analyze Refine Categorize

Sort by: Citing References

Get Substances Get Reactions Get Related Citations Tools

Create Keep Me Posted Alert Send to SciPlanner

Display Options

Page: 1 of 52

Anon 26
Zhang Wei 23
Liu Qingquan 11
Li Bin 10
Xie Chunguang 10
Li Jing 9
Miao Mingsan 9
Pang Bo 9
Zhang Jun Hua 9
Zhang Ying 9

1. Clinical characteristics and therapeutic procedure for four cases with 2019 novel coronavirus pneumonia receiving combined Chinese and Western medicine treatment
By Wang, Zhenwei; Chen, Xiaorong; Lu, Yunfei; Chen, Feifei; Zhang, Wei
From BioScience Trends (2020), 14(1), 64-68. | Language: English, Database: CAPLUS
Pneumonia assocd. with the 2019 novel coronavirus (2019-nCoV) is continuously and rapidly circulating at present. No effective antiviral treatment has been verified thus far. We report here the clin. characteristics and therapeutic procedure for four patients with mild or severe 2019-nCoV pneumonia admitted to Shanghai Public Health Clin. Center. All the patients were given antiviral treatment including lopinavir/ritonavir (Kaletra), arbidol, and Shufeng Jiedu Capsule (SFJDC, a traditional Chinese medicine) and other necessary support care. After treatment, three patients gained significan...
~72

2. Clinical features and treatment of COVID-19 patients in northeast Chongqing
By Wan, Suxin; Xiang, Yi; Fang, Wei; Zheng, Yu; Li, Boqun; Hu, Yanjun; Lang, Chunhui; Huang, Daoqiu; Sun, Qiuyan; Xiong, Yan; et al
From Journal of Medical Virology (2020), 92(7), 797-806. | Language: English, Database: CAPLUS
The outbreak of the novel coronavirus in China (SARS-CoV-2) that began in Dec. 2019 presents a significant and urgent threat to global health. This study was conducted to provide the international community with a deeper understanding of this new infectious disease. Epidemiol., clin. features, lab. findings, radiol. characteristics, treatment, and clin. outcomes of 135 patients in northeast Chongqing were collected and analyzed in this study. A total of 135 hospitalized patients with COVID-19 were enrolled. The median age was 47 years (interquartile range, 36-55), and there was no signific...
~57

3. COVID-19 infection and rheumatoid arthritis: Faraway, so close!
By Favalli, Ennio Giulio; Ingegnoli, Francesca; De Lucia, Orazio; Cincinelli, Gilberto; Cimaz, Rolando; Caporali, Roberto
From Autoimmunity Reviews (2020), 19(5), 102523. | Language: English, Database: CAPLUS
A review. The outbreak of the new coronavirus infections COVID-19 in Dec. 2019 in China has quickly become a global health emergency. Given the lack of specific anti-viral therapies, the current management of severe acute respiratory syndrome coronaviruses (SARS-CoV-2) is mainly supportive, even though several compds. are now under investigation for the treatment of this life-threatening disease. COVID-19 pandemic is certainly conditioning the treatment strategy of a complex disorder as rheumatoid arthritis (RA), whose infectious risk is increased compared to the general population because ...
~50

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Citing Reference: 帮助找到最重要的文献

文献结果集

Explore ▾ Saved Searches ▾ SciPlanner Save Print Export

Research Topic: "chinese medicine in COVID-19" > references

REFERENCES Get Substances Reactions Advanced Citations Tools

Analyze Refine Categorize Sort by: Accession Number Display Options

0 of 1022 References Selected Page: 1 of 52

Analyze by: Author Name

Author Name	Count
Anon	26
Zhang Wei	23
Liu Qingquan	11
Li Bin	10
Xie Chunguang	10
Li Jing	9
Miao Mingshan	9
Pang Bo	9
Zhang Jun Hua	9
Zhang Ying	9

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文献分析工具

获取原文

1. Traditional Chinese exercise for COVID-19: A protocol for systematic review and meta-analysis

By Duan, Yuanyuan; Xiong, Mengran; Wang, Heping; Yao, Xiaoyan; Liu, Henyuan; Li, Guangxi
From Medicine (Philadelphia, PA, United States) (2020), 99(45), e23044. | Language: English, Database: CAPLUS

Background: A new type of coronavirus (**COVID-19**), is spreading all over the world. Under the background of the comprehensive medical treatment and strict prevention and control in China, the no. of discharged patients increased substantially. By the end of July, more than 80,000 patients had been cured and discharged from hospital in China. In order to effectively promote the full recovery of the patient's phys. and mental functions and quality of life, gradually shift to convalescence therapy is very important, thus **Chinese** experts draw up Expert Consensus on Reh...

2. Anti-COVID-19 drug screening: Frontier concepts and core technologies

By Luo, Hua; Zhao, Mingming; Tan, Dechao; Liu, Chang; Yang, Lin; Qiu, Ling; Gao, Yan; Yu, Hua
From Chinese Medicine (London, United Kingdom) (2020), 15(1), 115. | Language: English, Database: CAPLUS

Abstr.: The outbreak of **COVID-19** has recently evolved into a global pandemic. Up to July 2020, almost every country has confirmed **COVID-19** cases reported worldwide. Many leading experts have predicted that the epidemic will persist for relatively a long period of time. Thus far, there have been no remedies proven effective against the disease. As the nation where **COVID-19** broke out first, China has adopted a combination of traditional **Chinese medicine** and western **medicine** to fight against the disease, and has achieved significant clin. result. Up to now, the **COVID-19** pandemic has been eff...

3. In-silico recognition of liquorice phytoconstituents specially glabranin B as a potential cathepsin L inhibitor to hinder 2019-NCOV host cell entry

By Fathy, Hoda; Abdelhady, Walid; Ibrahim, Reham S.
From International Journal of Pharmaceutical Sciences Review and Research (2020), 64(1), 197-202. | Language: English, Database: CAPLUS

The pandemic caused by novel coronavirus disease 2019 infecting millions of populations worldwide and the lack of specific treatment necessitate the use of all resources to remedy this scourge. The chem.-diverse natural products have been valuable sources for drug leads for centuries. Traditional **Chinese Medicine** (TCM) has a long history and achieved remarkable therapeutic effect during the treatment period of **COVID-19** in China. This brief article discusses the therapeutic potential of some bioactive compds. from liquorice (*Glycyrrhiza glabra*) root for the treatment of **COVID-19** by binding t...

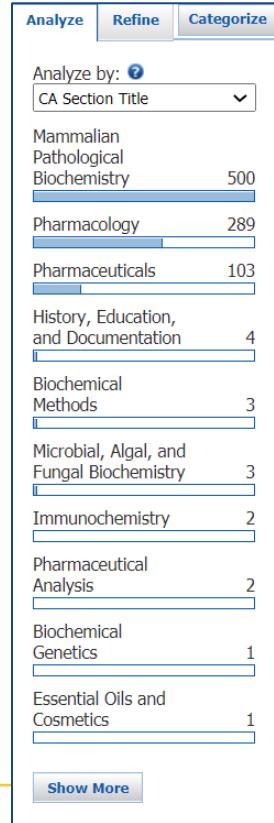
SciFinder提供强大的文献处理工具，帮助处理文献

分析文献结果集——Analyze

期刊



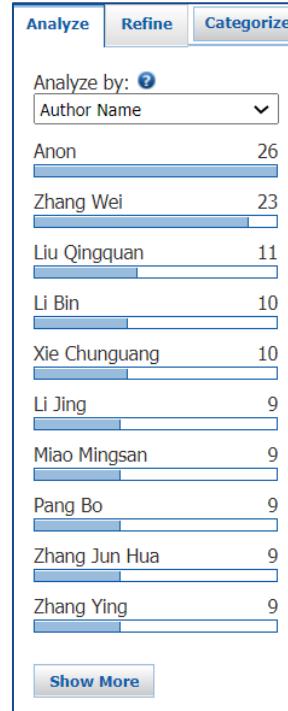
涉及学科领域



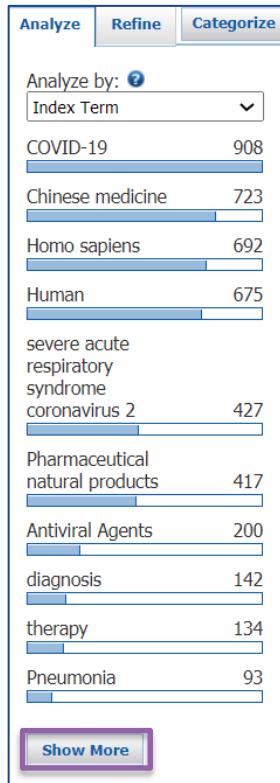
本领域研究机构、合作伙伴、竞争对手



本领域研究人员

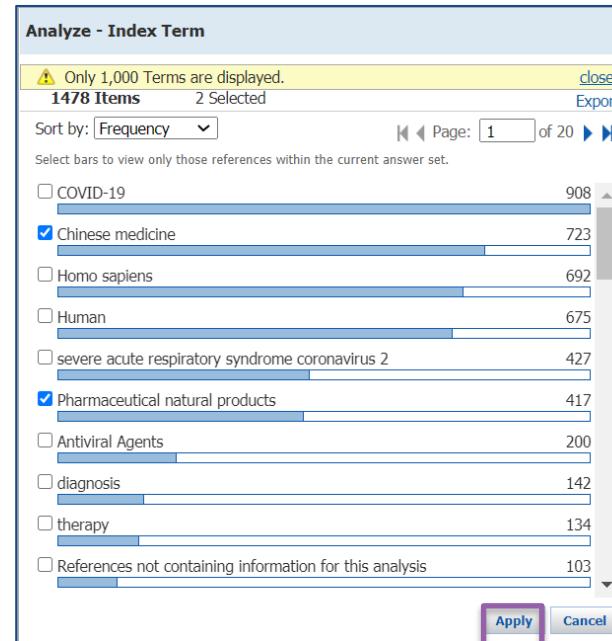


分析文献结果集——Analyze



Index Term:

帮助用户了解涉及到的重要技术术语，并修正检索词



选择感兴趣的内容，点击Apply

筛选文献结果集——Refine

Analyze Refine Categorize

Refine by:

- Research Topic
- Author
- Company Name
- Document Type
- Publication Year
- Language
- Database

Document Type(s)

- Biography
- Book
- Clinical Trial
- Commentary
- Conference
- Dissertation
- Editorial
- Historical
- Journal
- Letter
- Patent
- Preprint
- Report
- Review

Refine

Get Substances Get Reactions Get Related Citations Tools Send selected records to SciPlanner. Send to SciPlanner

Sort by: Accession Number ↘ 0 of 212 References Selected Page: 1 of 11

1. **Herbal immune-boosters: Substantial warriors of pandemic Covid-19 battle**
By Khanna, Kanika; Kohli, Sukhneet Kaur; Kaur, Ravdeep; Bhardwaj, Abhay; Bhardwaj, Vinay; Ohr, Puja; Sharma, Anket; Ahmad, Ajaz; Bhardwaj, Renu; Ahmad, Parvalz
From Phytomedicine (2020), Ahead of Print. | Language: English, Database: CAPLUS
A review. Current scenario depicts that world has been clenched by **COVID-19** pandemic. Inevitably, public health and safety measures could be undertaken in order to dwindle the infection threat and mortality. Moreover, to overcome the global menace and drawing out world from moribund stage, there is an exigency for social distancing and quarantines. Since Dec., 2019, coronavirus, SARS-CoV-2 (**COVID-19**) have came into existence and up till now world is still in the state of shock. At this point of time, **COVID-19** has entered perilous phase, creating havoc among individuals, and this has been ...

2. **The global registry of COVID-19 clinical trials: indicating the design of traditional Chinese medicine clinical trials**
By Wei, Xuxu; Zhao, Mengzhu; Zhao, Chen; Zhang, Xiaoyu; Qiu, Ruijin; Lin, Yiyi; Sun, Yang; Guan, Manke; Shang, Hongcai
From TMR Modern Herbal Medicine (2020), 3(3), 140-146. | Language: English, Database: CAPLUS
A review. Objective: To analyze the registration information of Corona Virus Disease 2019 (**COVID-19**) related clin. trials from all the clin. trial registry accepted by the International Committee of Medical Journal Editors (ICMJE). Methods: All the database of ICMJE-accepted clin. trial registry platform were searched for **COVID-19** related clin. trials that registered from Dec. 8, 2019 to Feb. 19, 2020. Results: All the database totally contained data of 209 **COVID-19** related clin. trials, including 66(31.6%) traditional **Chinese medicine** (TCM) related studies and 143(68.4%) non-TCM related st...
Quick View Other Sources

3. **Discuss about the application of Artemisia annua prescriptions in the treatment of COVID-19**
By Dong, Ruolan; Xiong, Xinyu; Chen, Guang
From TMR Modern Herbal Medicine (2020), 3(3), 158-164. | Language: English, Database: CAPLUS
A review and discussion. The applications of traditional **Chinese medicine** (TCM) have been playing an important role in treating the epidemics of Coronavirus Disease 2019 (**COVID-19**), which is now prevalent all over the world. Exploring the mechanisms of TCM compd. prescriptions might be difficult though, pharmacol. studies on elucidating the effective components of TCM could serve as the exptl. basis in the application of TCM compd. prescription in treating **COVID-19**. As the crit. active ingredients of Qinghaosu (*Artemesia annua*), artemisinin was initially used as antimalaria drug. Artemesia a...
Quick View Other Sources

4. **A review and comment on the current situation of 2019 novel coronavirus prevention by traditional Chinese medicine**
By Li, Mi; Jiang, Zixiang; Wang, Xian; Li, Kai; Xie, Yiqiang
From TMR Modern Herbal Medicine (2020), 3(3), 147-157. | Language: English, Database: CAPLUS
A review. Objective: To provide some valuable research ideas for the prevention of 2019-nCoV through reviewing and commenting the **Chinese** herbs in existing prevention programs of TCM. Methods: Firstly, searching the prevention and treatment programs for 2019-nCoV issued before Jan. 29, 2020. There are only three sources that can be selected in, including national and provincial health commissions, research and clin. Institutes of TCM and national famous TCM doctors. Secondly, from the collections of all prevention and treatment programs, we sorted out prevention parts within **Chinese** herbs ...

Refine: 帮助用户迅速获得需要的文献



分类文献结果集——Categorize

学科领域 主分类	学科领域 副分类	Index Term	选中的Index Term																																											
<p>Categorize ?</p> <p>1. Select a heading and category.</p> <table border="1"><thead><tr><th>Category Heading</th><th>Category</th></tr></thead><tbody><tr><td>All</td><td>Miscellaneous substances (321)</td></tr><tr><td>General chemistry</td><td>Substances in property studies (208)</td></tr><tr><td>Genetics & protein chemistry</td><td></td></tr><tr><td>Physical chemistry</td><td>Gas, liquid, & solid phenomena (22)</td></tr><tr><td>Polymer chemistry</td><td>Substances in processes (28)</td></tr><tr><td>Biotechnology</td><td>Mechanics (4)</td></tr><tr><td>Biology</td><td>Particle phenomena (3)</td></tr><tr><td>Technology</td><td>Thermodynamics (3)</td></tr><tr><td>Analytical chemistry</td><td>Spectra & spectroscopy (3)</td></tr><tr><td>Environmental chemistry</td><td>Electric & magnetic phenomena (2)</td></tr><tr><td>Synthetic chemistry</td><td>Subatomics (1)</td></tr><tr><td>Catalysis</td><td></td></tr></tbody></table> <p>2. Select index terms of interest.</p> <table border="1"><thead><tr><th>Index Terms</th></tr></thead><tbody><tr><td><input type="checkbox"/> Select All</td></tr><tr><td><input type="checkbox"/> Deselect All</td></tr><tr><td><input checked="" type="checkbox"/> Pharmaceutical decoctions 60</td></tr><tr><td><input checked="" type="checkbox"/> Pharmaceutical injections 20</td></tr><tr><td><input type="checkbox"/> Sputum 9</td></tr><tr><td><input type="checkbox"/> Blood plasma 5</td></tr><tr><td><input type="checkbox"/> Convalescent plasma 5</td></tr><tr><td><input type="checkbox"/> Binding energy 2</td></tr><tr><td><input type="checkbox"/> Blood serum 2</td></tr><tr><td><input type="checkbox"/> Body fluid 2</td></tr><tr><td><input type="checkbox"/> Disorder 2</td></tr><tr><td><input type="checkbox"/> Air 1</td></tr><tr><td><input type="checkbox"/> Blood 1</td></tr><tr><td><input type="checkbox"/> Crystallization 1</td></tr><tr><td><input type="checkbox"/> Drops 1</td></tr><tr><td><input type="checkbox"/> Exudate 1</td></tr></tbody></table> <p>Selected Terms</p> <p>Click 'x' to remove the category from 'Selected Terms'</p> <p><input checked="" type="checkbox"/> Physical chemistry > Gas, liquid, & solid phenomena (2 Terms)</p> <p>Physical chemistry > Gas, liquid, & solid phenomena > 2 Index Term(s) Selected</p> <p>OK Cancel</p>				Category Heading	Category	All	Miscellaneous substances (321)	General chemistry	Substances in property studies (208)	Genetics & protein chemistry		Physical chemistry	Gas, liquid, & solid phenomena (22)	Polymer chemistry	Substances in processes (28)	Biotechnology	Mechanics (4)	Biology	Particle phenomena (3)	Technology	Thermodynamics (3)	Analytical chemistry	Spectra & spectroscopy (3)	Environmental chemistry	Electric & magnetic phenomena (2)	Synthetic chemistry	Subatomics (1)	Catalysis		Index Terms	<input type="checkbox"/> Select All	<input type="checkbox"/> Deselect All	<input checked="" type="checkbox"/> Pharmaceutical decoctions 60	<input checked="" type="checkbox"/> Pharmaceutical injections 20	<input type="checkbox"/> Sputum 9	<input type="checkbox"/> Blood plasma 5	<input type="checkbox"/> Convalescent plasma 5	<input type="checkbox"/> Binding energy 2	<input type="checkbox"/> Blood serum 2	<input type="checkbox"/> Body fluid 2	<input type="checkbox"/> Disorder 2	<input type="checkbox"/> Air 1	<input type="checkbox"/> Blood 1	<input type="checkbox"/> Crystallization 1	<input type="checkbox"/> Drops 1	<input type="checkbox"/> Exudate 1
Category Heading	Category																																													
All	Miscellaneous substances (321)																																													
General chemistry	Substances in property studies (208)																																													
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Polymer chemistry	Substances in processes (28)																																													
Biotechnology	Mechanics (4)																																													
Biology	Particle phenomena (3)																																													
Technology	Thermodynamics (3)																																													
Analytical chemistry	Spectra & spectroscopy (3)																																													
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Synthetic chemistry	Subatomics (1)																																													
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<input type="checkbox"/> Crystallization 1																																														
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1. Chemical composition and pharmacological mechanism of shenfu decoction in the treatment of novel coronavirus pneumonia (COVID-19)

By Li, Xiaoling; Lin, Haowen; Wang, Qiu; Cai, Lise; Luo, Hui; Luo, Liangming
From Drug Development and Industrial Pharmacy (2020), Ahead of Print. | Language: English, Database: CAPLUS

Purpose Shenfu decoction has outstanding curative effects in the treatment of COVID-19. This study aimed to explore the material basis and mol. mechanism of Shenfu Decoction through network pharmacol. and mol. mechanisms, to provide a research basis for clin. medication and clues for subsequent research. Methods The active components and targets of Shenfu decoction were searched in the Traditional Chinese Medicine Systems Pharmacol. Database and Anal. Platform (TCMSP), and the COVID-19-assoc. genes were collected using the Gene Card platform. Then the network pharmacol. and mol. mechanisms of Shenfu decoction were analyzed by using the Network药理学 (Netscape) software. Results A total of 10 active components and 11 targets were obtained from TCMSP. There were 117 COVID-19-assoc. genes collected from Gene Card. The results showed that Shenfu decoction had a significant effect on COVID-19 through multiple pathways and targets. Conclusion This study provides a theoretical basis for the clinical application of Shenfu decoction in the treatment of COVID-19.

2. Traditional Chinese medicine Lianhua Qingwen treating corona virus disease 2019 (COVID-19): Meta-analysis of randomized controlled trials

Quick View | Other Sources
By Zeng, Mengjie; Li, Jinjin; Wu, Zhiqian
From PLoS One (2020), 15(9), e0238828. | Language: English, Database: CAPLUS

As the global epidemic continues to spread, countries have tapped effective drugs to treat new coronavirus pneumonia. The therapeutic effect of the traditional Chinese medicine Lianhua Qingwen in this new coronary pneumonia epidemic has attracted attention from all walks of life, and relevant research reports continue to appear. Therefore, we conducted a systematic review of the clin. efficacy and safety of the traditional Chinese medicine Lianhua Qingwen in the treatment of new coronavirus pneumonia (COVID-19) (referred to as "new coronary pneumonia"), and evaluated the overall level of res...

3. Chemoprophylaxis, diagnosis, treatments, and discharge management of COVID-19: An evidence-based clinical practice guideline (updated version)

Quick View | Other Sources
By Jin, Ying-Hui; Zhan, Qing-Yuan; Peng, Zhi-Yong; Ren, Xun-Qun; Yin, Xun-Tao; Cai, Lin; Yuan, Yu-Feng; Yue, Ji-Rong; Zhang, Xiao-Chun; Yang, Qi-Wen; et al
From Military Medical Research (2020), 7(1), 41. | Language: English, Database: CAPLUS

The novel severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is the cause of a rapidly spreading illness, coronavirus disease 2019 (COVID-19), affecting more than seventeen million people worldwide. Diagnosis and treatment guidelines for clinicians caring for patients are needed. In the early stage, we have issued "A rapid advice guideline for the diagnosis and treatment of 2019 novel coronavirus (nCoV) infected pneumonia (std. version)"; now there are many direct evidences emerged and may change some of previous recommendations and it is ripe for develop an evidence-based...

4. A case of treatment of a new coronavirus pneumonia patient with consistent fever using Fenghuolun theory by professor Du Shaohui

Quick View | Other Sources
By Yang, Hui; Du, Shao-hui; Lin, Min; Guo, Rui-sheng; Cao, Jiao-Jiao; He, Zhen-yu; Zhang, Ping; Li, Ling; Yue, Ting-ting; Zhu, Yan-xian
From Open Access (OA) Online-First Publishing of Research Papers on COVID-19 (2020), 1-4. | Language: Chinese, Database: CAPLUS

A COVID-19 patient with consistent fever was treated by professor Du Shaohui using Chinese traditional medicine theory, Fenghuolun. The patient was treated with pharmaceutical natural products Xiaocaihu decoction and Mahuangshengma decoction.

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1. Chemical composition and pharmacological mechanism of shenfu decoction in the treatment of novel coronavirus pneumonia (COVID-19)

By: Li, Xiaoling; Lin, Haowen; Wang, Qu; Cui, Liao; Luo, Hui; Luo, Lianxiang

Purpose Shenfu decoction has outstanding curative effects in the treatment of COVID-19. This study aimed to explore the material basis and mol. mechanism of Shenfu Decoction through network pharmacol. and mol. mechanisms, to provide a research basis for clin. medication and clues for subsequent research. Methods The active components and targets of Shenfu decoction were searched in the Traditional Chinese Medicine Systems Pharmacol. Database and Anal. Platform (TCMSP), and the COVID-19 assoc. genes were collected using the Gene Cards platform. The target protein-protein interaction network map was constructed by mapping two genes, and the 'drug-active ingredient-target' network was constructed using Cytoscape software. The Gene Ontol. (GO) function and Kyoto Encyclopedia of Genes and Genomes (KEGG) pathway enrichment of the mapping targets were analyzed. Result Based on Traditional Chinese medicine, Shenfu Decoction can take effect in the lung, spleen, kidney and heart. Considering oral bioavailability (OB) ≥ 30% and drug-like (DL) ≥ 0.18 as the std., 43 active compds. were screened and 114 Shenfu decoction active targets were collected. The key targets were CASP3, MAPK8, PTGS2, IL1B, PPARG, ICAM1, IFNG, RELA, NOS2, NOS3, HMOX1, CASP8, STAT1, and TGFBI. According to the std. of $p < .05$, GO function was enriched in 108 biol. processes, 16 cell processes and 2 mol. processes. Sixty-three signaling pathways were enriched by KEGG, which can be divided into four types: viral infection pathways, signal pathways, biol. process pathways and different disease pathways. The combination of non- and nocebo pre-treatments further reflects the pos. effect of Shenfu decoction against COVID-19. Finally, the effective ingredients with the high degree were mol. docked with Mpro, RdRp and Spike protein, and the mechanism of multi-components and multi-targets, to treat patients with severe COVID-19.

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Indexing

Pharmaceutics
Concepts

重要概念

- Antiviral agents
- Chinese medicine
- Homo sapiens
- Molecular docking
- Severe acute respiratory syndrome coronavirus 2

Chem. compn. and pharmacol. mechanism of shenfu decoction in the treatment of novel coronavirus pneumonia (COVID-19)

Intercellular adhesion molecule 1

Peroxisome proliferator-activated receptor γ

Transcription factor STAT1

Type II interferons

Chem. compn. and pharmacol. mechanism of shenfu decoction in the treatment of novel coronavirus pneumonia (COVID-19)

Biological study, unclassified; Biological study

Substances

重要物质

- 9026-28-2 RdRp
- 169592-56-7 CASP3
- 179241-78-2 CASP8
- 218925-73-6 Mpro protease
- 289898-51-7 MAPK8
- 329900-75-6 PTGS2
- 501433-35-8 NOS2
- 503473-02-7 NOS3
- 1355645-85-0 HMOX1

Chem. compn. and pharmacol. mechanism of shenfu decoction in the treatment of novel coronavirus pneumonia (COVID-19)

Biological study, unclassified; Biological study

- 83-46-5 β-Sitosterol
- 83-48-7 Stigmasterol
- 117-52-2 Fumarine
- 520-18-3 Kaempferol

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ISSN:0363-9045
DOI:10.1080/03639045.2020.182650

COMPANY/ORGANIZATION
Animal Experiment Center
Guangdong Medical

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PatentPak——专利工作流程解决方案

By Orhan, Ilkay Erdogan; Kartal, Murat
From Turkish Journal of Pharmaceutical Sciences (2015), 12(3), 279-286. | Language: English, Database: CAPLUS

Hypericum perforatum L. (St. John's Wort) is a reputed plant with a long service to humankind. In the current study, antioxidant activity of the methanol ext. of the aerial parts of if H. perforatum growing in Turkey along with hyperoside and hyperforin was evaluated by 2,2-diphenyl-1-picrylhydrazyl (DPPH) radical scavenging, metal-chelation, and ferric-reducing antioxidant power (FRAP) assays. The major components including chlorogenic acid, the flavonoid derivs.; rutin, hyperoside, quercitrin, quercetin, and biapigenin, the naphthodianthrone; pseudohypericin and hypericin, and the phlor.

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28. Flavaspidic acid BB of phloroglucinol derivatives of Dicotyledonous plants and antibacterial application

Quick View PATENTPAK

By Shen, Zhibin
From Faming Zhou
The invention relates to a new compound, which is a derivative of phloroglucinol, and its preparation method, pharmaceutical composition and application. The compound has relatively strong antibacterial effect, esp. has good curative effect against the drug-resistant bacteria.

Patent No. CN 107837247 PatentPak Options Kind Language US

PDF | PDF+ | Viewer A Chinese

d. shown as structure I. Flavaspidic acid BB has good antibacterial applications, can effectively inhibit the growth of drug-resistant bacteria. Exptl. result shows that the compd. has relatively strong antibacterial effect, esp. has good curative effect against the drug-resistant bacteria.

29. Electrochemical properties of carbon aerogels with freeze-drying

Quick View Other Sources

By Xu, Yuelong; Yan, Mefang; Liu, Zhenfa
From IOP Conference Series: Materials Science and Engineering (2017), 231(2017 2nd International Seminar on Advances in Materials Science and Engineering), 012055/1-012055/5.
Language: English, Database: CAPLUS

Carbon aerogels (CAs) were prep'd. via a sol-gel process by polymn. of phloroglucinol, resorcinol and formaldehyde using 2,4-dihydroxybenzoic acid as catalyst with freeze-drying. The electrochem. properties were characterized using cyclic voltammetry, galvanostatic charge-discharge measurements and electrochem. impedance spectroscopy (EIS). The specific capacitance of corresponding CAs was up to 131 F g⁻¹ and 105 F g⁻¹ at the d. of 0.5 A g⁻¹ and 1.0 A g⁻¹, resp.

30. Organic acid catalyzed carbon aerogels with freeze-drying

Quick View Other Sources

By Xu, Yuelong; Yan, Mefang; Liu, Zhenfa
From IOP Conference Series: Materials Science and Engineering (2017), 231(2017 2nd International Seminar on Advances in Materials Science and Engineering), 012113/1-012113/5.
Language: English, Database: CAPLUS

Carbon aerogels (CAs) were synthesized via a sol-gel process by condensation-polymn. of phloroglucinol, resorcinol and formaldehyde using 2,4-dihydroxybenzoic acid as catalyst with freeze-drying. The effects of the freeze-drying method on the texture and pore structure were studied. Meanwhile the structure of carbon aerogels was characterized by X-ray diffraction (XRD), SEM (SEM) and a surface-area analyzer. The results show that the freeze-drying method and acid catalyst were good for the sp. surface area of carbon aerogel, up to 765 m² g⁻¹, and pore size distribution.

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The screenshot shows the PatentPak software interface. At the top, there is a header with author information: "By Orman, İtay Erdogan; Kartal, Murat From Turkish Journal of Pharmaceutical Sciences (2015), 12(2), 279-286. | Language: English, Database: CAPLUS". Below the header, there are three tabs: "PAGE 2 /12", "ZOOM +", and "DOWNLOAD PDF". A purple callout box labeled "专利PDF文件" points to the "DOWNLOAD PDF" button.

The main content area displays a patent document. The first few paragraphs describe the use of a compound from a genus of fungi (Penicillium) as a pharmaceutical agent. Subsequent paragraphs detail the chemical synthesis of a compound (Yellow Penicilline BB) and its properties. Several chemical structures are shown, each with a purple location pin indicating an "Analyst Markup Location". A purple callout box labeled "在PatentPak Viewer中点击物质下面的紫色灯泡, 快速定位到PDF文件中的物质信息" points to one of these pins.

On the left side of the interface, there are two boxes for "Key Substances in Patent". The top box contains a chemical structure for CAS RN 25953-19-9 and the bottom box contains a structure for CAS RN 1404-90-6, both with "Search in SciFinder" and "View Detail" links. Each box also has a "Analyst Markup Locations (1)" section with a purple location pin and a "page 2" link.

PatentPak——专利工作流程解决方案

28. Flavaspodic acid BB of phloroglucinol derivatives of Dryopteris fragrans and antibacterial application

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PAGE 2 /12 ZOOM DOWNLOAD PDF

Key Substances in Patent

CAS RN 2216756-37-3

Search in SciFinder | View Detail

Analyst Markup Locations (2)

page 2 page 8

CAS RN 108-73-6

Search in SciFinder | View Detail

Analyst Markup Locations (2)

page 2 page 8

5. 根据权利要求4所述香鳞毛蕨间苯三酚类化合物黄绵马酸BB的应用,其特征在于,所述耐药性的革兰氏阳性致病菌是对头孢唑啉、万古霉素和/或达托霉素产生耐药性的革兰氏阳性致病菌。

6. 根据权利要求4或5所述香鳞毛蕨间苯三酚类化合物黄绵马酸BB的应用,其特征在于,所述耐药性革兰氏阳性致病菌为耐药的金黄色葡萄球菌和/或表皮葡萄球菌。

7. 权利要求1至6所述香鳞毛蕨间苯三酚类化合物黄绵马酸BB的化学合成方法,其特征在于,包括以下步骤:

- S1. 合成2',4',6'-三羟基-3'-丁酰基苯丁酮;
- S2. 合成4,4-二甲基-3,5-二羟基-2,6-二丁酰基-2,5-环己二烯酮;
- S3. 合成4,4-二甲基-3,5-二羟基-2-丁酰基-2,5-环己二烯酮;
- S4. 合成2,4,6-三甲氧基苯甲醛;
- S5. 合成2-甲基-3,5-二甲氧基苯甲酸;
- S6. 合成3'-甲基-2',4',6'-三甲氧基苯丁酮;
- S7. 合成3'-甲基-2',4',6'-三羟基苯丁酮;
- S8. 合成4,4-二甲基-3,5-二羟基-2-丁酰基-6-(5-甲基-2,4,6-三羟基-3-丁酰基苯基)-2,5-环己二烯酮。

8. 权利要求7所述香鳞毛蕨间苯三酚类化合物黄绵马酸BB的化学合成方法,其特征在于,包括以下步骤:

- 6'-三羟基-3'-丁酰基苯丁酮;

4H-chromenes under green and high efficient conditions

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5. 根据权利要求4所述香鳞毛蕨间苯三酚类化合物黄绵马酸BB的应用,其特征在于,所述耐药性的革兰氏阳性致病菌是对头孢唑啉、万古霉素和/或达托霉素产生耐药性的革兰氏阳性致病菌。
6. 根据权利要求4或5所述香鳞毛蕨间苯三酚类化合物黄绵马酸BB的应用,其特征在于,所述耐药性革兰氏阳性致病菌为耐药的金黄色葡萄球菌和/或表皮葡萄球菌。
7. 权利要求1至6所述香鳞毛蕨间苯三酚类化合物黄绵马酸BB的化学合成方法,其特征在于,包括以下步骤:
 - S1. 合成2',4',6'-三羟基-3'-丁酰基苯丁酮;
 - S2. 合成4,4-二甲基-3,5-二羟基-2,6-二丁酰基-2,5-环己二烯酮;
 - S3. 合成4,4-二甲基-3,5-二羟基-2-丁酰基-2,5-环己二烯酮;
 - S4. 合成2,4,6-三甲氧基苯甲酸;
 - S5. 合成2-甲基,3,5-二甲氧基苯甲酸;
 - S6. 合成3'-甲基-2',4',6'-三甲氧基苯甲酸;
 - S7. 合成3'-甲基-2',4',6'-三羟基苯甲酸;
 - S8. 合成4,4-二甲基-3,5-二羟基-2-丁酰基-6-(5-甲基-2,4,6-三羟基-3-丁酰基苯基)-2,5-环己二烯酮;
8. 权利要求7所述香鳞毛蕨间苯三酚类化合物黄绵马酸BB的化学合成方法,其特征在于,包括以下步骤:

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 - SUBSTANCES: MARKUSH:** Structure Editor with Java and Non-Java tabs. A chemical structure of phloroglucinol is shown. Below it is a message: "Click image to change structure or view detail." An Import CXF button is also present.
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Pharmacology / Toxicology: 成瘾药物检测, 有毒物检测...

Bioassays: 生物探针, 生物标记细胞实验, 生物标记药物实验, 生物医学材料分析, 生物分子/生物组织分离测定...

Water Analysis: 阴阳离子分析, 元素测定, 痕量元素分析, 废水分析, 生物标记公共卫生分析...

Historical Analysis / Dating: 考古分析, 同位素分析

Environmental Analysis: 土壤/空气/水分析, 农药残留分析...

Agricultural Applications / Analysis: 除草剂分析...

Food Analysis: 脂肪酸分析, 脂肪酸酯分析, 蛋白质分析...

Fuels / Geology / Biofuels: 生物燃料分析, 油气分析, 石油产品分析, 煤炭加工...

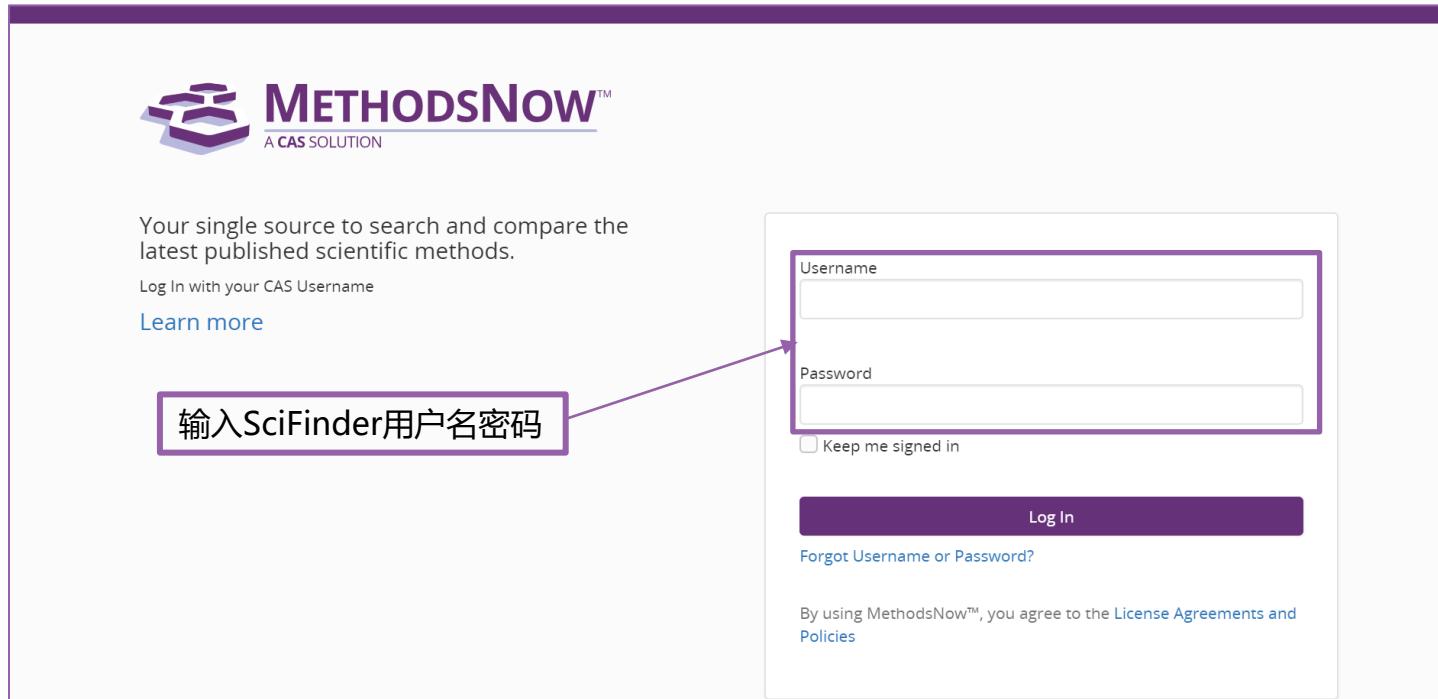
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Clopidogrel

clopidogrel besylate

clopidogrel bisulfate

clopidogrel- β -D-glucuronide

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- Pharmaceutical tablets (102)
- Blood plasma (70)
- Pharmaceutical capsules (22)
- Tablets (20)
- Wastewater (13)

[View All](#)

Method Category

Technique

Year

Results (318)

[Analysis of Clopidogrel in Drugs by Spectrophotometry](#)
CAS MN: 1-101-CAS-61399
[View Details & Instructions](#) [Add to Compare](#)

Analyte	Clopidogrel
Matrix	Drugs
Other Materials	Reagent: Hydrochloric acid; 1,10-Phenanthroline; Iron chloride ($FeCl_3$); Phosphoric acid Material: 10 mL volumetric flask
Method Category	Active Pharmaceutical Ingredient and Metabolite Analysis
Technique	Spectrophotometry
Equipment Used	Spectrophotometer
Source	Assay of Clopidogrel by visible spectrophotometry Anupama, B.; Jagathi, V.; Aparna, A.; Madhubabu, M.; Lakshmi Annapurna, V. International Journal of Pharma and Bio Sciences (2011), 2 (2), 105-108. Muthu Prasanna P.

限定目标分析物

利用MethodsNow检索文献——直接获得分析实验方法

Matrix

Alphabetically By Count

- Acetaminophen (1)
- Alburnus alburnus (1)
- Amlodipine besylate (1)
- Anguilla anguilla (1)
- Aspirin (1)
- Barbus graellsii (1)
- Blood (9)
- Blood analysis (1)
- Blood plasma (70)
- Blood serum (5)
- Brain (1)
- Capsule (microbial) (1)
- Fish (1)
- Geological sediments (1)
- Gill (1)
- Gobio gobio (1)
- Groundwaters (4)
- Heart (1)
- Homo sapiens (1)
- Industrial wastewater (1)
- Kidney (2)
- Lepomis gibbosus (1)
- Liquid oral drug delivery systems (1)
- Pharmaceutical natural products (1)
- Pharmaceutical oral solutions (1)
- Pharmaceutical syrups (1)
- Pharmaceutical tablets (102)
- Pseudochromis drastoma willkommii (1)
- Rattus norvegicus (2)
- River waters (2)
- Rutulus rutilus (1)
- Salmo trutta (1)
- Silurus glanis (1)

← Prev 1 Next → Go to page: Go

Apply Cancel

进一步限定分析介质

Return to Home

Analyte

- Clopidogrel (46)
- Clopidogrel bisulfate (45)
- Aspirin (23)
- Amlodipine besylate (6)
- Acetaminophen (3)

View All

Matrix

- Pharmaceutical tablets (102)
- Blood plasma (70)
- Pharmaceutical capsules (22)
- Tablets (20)
- Wastewater (13)

View All

Method Category

Technique

Equipment Used

Source

Year

Results (102) Sort Relevance ▾

Analysis of Clopidogrel in Pharmaceutical tablets by Spectrophotometry CAS MN: 1-101-CAS-191095

View Details & Instructions 查看详细实验方法 Add to Compare

Analyte	Clopidogrel
Matrix	Pharmaceutical tablets
Other Materials	Reagent: Iron chloride ($FeCl_3$); 3-Methyl-2-benzothiazolinone hydrazone; Methanol; Hydrochloric acid
Method Category	Active Pharmaceutical Ingredient and Metabolite Analysis
Technique	Spectrophotometry
Equipment Used	Spectrophotometer
Source	Spectrophotometric methods for the determination of clopidogrel
	Aparna, A.; Anupama, B.; Vindya, G.; Rao, P. Bhaskara; Rao, G. Devala
	International Journal of Chemical Sciences (2010), 8 (4), 2529-2532. Sadguru Publications

Full Text ▾

Abstract ▾



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33

利用MethodsNow检索文献——直接获得分析实验方法

Method Detail (1 of 102)

← Prev Next →



Analysis of Clopidogrel in Pharmaceutical tablets by Spectrophotometry

CAS MN: 1-101-CAS-191095

Method Category: Active Pharmaceutical Ingredient and Metabolite Analysis
Technique: Spectrophotometry

实验材料

Materials	Role	Image	CAS RN
Clopidogrel	analyte	View Structure	113665-84-2
Pharmaceutical tablets	matrix		
Iron chloride (FeCl_3)	reagent	View Structure	7705-08-0
3-Methyl-2-benzothiazolinone hydrazone	reagent	View Structure	1128-67-2
Methanol	reagent	View Structure	67-56-1
Hydrochloric acid	reagent	View Structure	7647-01-0

Source

Spectrophotometric methods for the determination of clopidogrel

Aparna, A.; Anupama, B.; Vindya, G.; Rao, P. Bhaskara; Rao, G. Devala

International Journal of Chemical Sciences (2010), 8 (4), 2529 - 2532. Sadguru Publications

CODEN: IJCSIL ISSN: 0972768X

[Full Text ▾](#)

Abstract ^

Two simple and sensitive spectrophotometric methods have been developed for the estimation of clopidogrel in pure and pharmaceutical dosage forms. Method A is based on the formation of charge transfer complex of the drug with chloranilic acid (λ_{max} , 515 nm). Method B is based on oxidative coupling of the drug with 3-Me 2-benzothiazolinone hydrazone (MBTH; λ_{max} 630 nm). The absorbance of the colored species was measured against the reagent blank. These methods have been statistically evaluated and found to be precise and accurate.

Equipment Used

Spectrophotometer

文献信息

Conditions

Instrument

Detection wavelength: 630 nm

Instructions

Preparation of 3-Methyl 2-benzothiazolinone hydrazone (MBTH)

1. Prepare an aqueous solution of MBTH at 0.2% w/v.

Preparation of ferric chloride solution

1. Prepare a solution of ferric chloride (0.7% w/v) in 0.5 N hydrochloric acid.

Preparation of standard solution of clopidogrel

1. Accurately weigh 100 mg of clopidogrel and dissolve in 100 mL of methanol to obtain a stock solution of 1 mg/mL.
2. Dilute this solution further to get working standard solution of 100 $\mu\text{g}/\text{mL}$.

Spectrophotometric analysis for determination of clopidogrel using MBTH reagent

1. Transfer aliquots of working standard solution of clopidogrel ranging from 0.5 - 2.5 mL into a series of 10 mL volumetric flasks.
2. Add 2 mL of ferric chloride to these flasks.
3. Shake the contents and keep aside for 2 minutes.
4. Add 1.5 mL of MBTH reagent and keep for 10 min.
5. Dilute the volume upto 10 mL with distilled water.
6. Measure the absorbance of the green colored chromogen at 630 nm against reagent blank.
7. Calculate the amount of clopidogrel present in the sample solution from its calibration curve.

Validation

Linearity Range 5 - 25 $\mu\text{g}/\text{mL}$

Recovery 99.36% from 75 mg label claim pharmaceutical tablets (sample data)

Accuracy 1.496 and 2.214% (range of error) at 0.05 and 0.01 significance level respectively

Precision 1.79% (RSD)

详细步骤

数据有效性验证

文献检索小结

1. 使用介词 **in, with, of** 等作为连接词
2. 跟据检索要求选择合适的候选项
3. 通过**Analyze/Refine/Categorize**功能来筛选结果
4. 从**Related Citations**拓展检索，获得更多灵感

提纲

- 美国化学文摘社简介
- SciFinder简介及检索方式
 - 文献检索 (PatentPak及MethodsNow-ANA的应用)
 - 物质检索
 - Markush检索
 - 反应检索 (MethodsNow-SYN的应用)
 - SciPlanner
- SciFinder常见问题及解决

SciFinder检索——物质检索

■ 物质检索方法

- 结构式检索
- 分子式检索
- 理化性质检索
- 物质标识符检索：化学名称， CAS RN

SUBSTANCES

- Chemical Structure
- Markush
- Molecular Formula
- Property
- Substance Identifier

■ 物质检索策略推荐

- 有机化合物，天然产物：结构检索
- 无机物，合金：分子式检索
- 高分子化合物：分子式检索和结构检索

物质检索——标识符检索

检索Argireline, 类肉毒杆菌、六胜肽

Explore ▾ Saved Searches ▾ SciPlanner

Research Topic "chinese medicine in COVID-19" > references (1022) > refine by categories > Chemical composition and pharm...

REFERENCES

Research Topic
Author Name
Company Name
Document Identifier
Journal
Patent
Tags

SUBSTANCES: SUBSTANCE IDENTIFIER ?

Argireline

Enter one per line.
Examples:
50-00-0
999815
Acetaminophen

Search

物质标识符包括CAS RN
和化学名称，化学名称
可以是通用名称、商品
名、俗名。

提示：

- 一次最多可输入25个物质。
- 每行一个物质标识符。

SciFinder中的物质记录

点击CAS RN 获得物质详细信息

1 616204-22-9

~695 ~62

Absolute stereochemistry.

$\text{C}_{34}\ \text{H}_{60}\ \text{N}_{14}\ \text{O}_{12}\ \text{S}$

L-Argininamide, N-acetyl-L- α -glutamyl-L- α -glutamyl-L-methionyl-L-glutaminyl-L-arginyl-Protein Sequence
Sequence Length: 6

[Key Physical Properties](#)
[Regulatory Information](#)

CAS Registry Number: 616204-22-9

[View Substance Detail](#)

[Explore by Structure](#)

[Synthesize this...](#)

[Get Reactions where Substance is a](#)

[Get Commercial Sources](#)

[Get Regulatory Information](#)

[Get References](#)

[Export as Image](#)

[Export as molfile](#)

[Send to SciPlanner](#)

在SciFinder中，鼠标滑过物质，即可打开物质标准菜单，获得与物质相关的所有内容

SciFinder中的物质记录

SUBSTANCE DETAIL [?](#)

[Get References](#) [Get Reactions](#) [Get Commercial Sources](#)

[Return](#)

CAS Registry Number 616204-22-9

由物质获得文献, 反应, 供应商等信息

~695 ~62

C₃₄H₆₀N₁₄O₁₂S

L-Argininamide, N-acetyl-L- α -glutamyl-L- α -glutamyl-L-methionyl-L-glutaminyl-L-arginyl-

Molecular Weight
888.99

Density (Predicted)
Value: 1.54±0.1 g/cm³ | Condition: Temp: 20 °C Press: 760 Torr

pKa (Predicted)
Value: 4.43±0.10 | Condition: Most Acidic Temp: 25 °C

Other Names
N-Acetyl-L- α -glutamyl-L- α -glutamyl-L-methionyl-L-glutaminyl-L-arginyl-L-argininamide
Acetyl hexapeptide 8
Acetyl hexapeptide-3
Argireline
Argireline NP

Protein Sequence
Sequence Length: 6 modified

物质详情

The chemical structure shows a complex peptide chain with six amino acid residues. It includes an N-terminal acetyl group, two glutamate (E) residues (one D-isomer), one methionine (M), one glutamine (Q), and one arginine (R). The chain features multiple amide linkages and a terminal carboxylic acid group. Stereochemistry is indicated at several points along the chain.

Absolute stereochemistry.

SciFinder中的物质记录

Sequence Details

Sequence:
1 EEMQR

蛋白序列

Sequence Modifications

Type	Location	Description
terminal mod.	Glu-1	N-acetyl
terminal mod.	Arg-6	C-terminal amide

Predicted Properties

Predicted Spectra

预测数据与预测谱图

¹H NMR ¹³C NMR

¹H NMR Properties

Value	Condition	Note
See spectrum		(2)

Notes
(2) Predicted NMR data calculated using Advanced Chemistry Development, Inc. (ACD/Labs) Software V11.01 (© 1994-2020 ACD/Labs)

Regulatory Information

Target Indicators

CAS Reference Roles

Additional Details

物质检索——Property explore

The screenshot shows the SciFinder interface for a 'Property explore' search. On the left, there are two main sections: 'REFERENCES' and 'SUBSTANCES'. Under 'SUBSTANCES', there are links for 'Chemical Structure', 'Markush', 'Molecular Formula', 'Property', and 'Substance Identifier'. The right side features a large search panel. At the top of this panel is a dropdown menu titled 'Select Property...' containing various chemical properties like 'Bioconcentration Factor', 'Boiling Point (°C)', and 'Molecular Weight'. The 'Molecular Weight' option is highlighted with a blue selection bar. Below this dropdown is a search input field containing the value '250-400'. A tooltip for this input field states 'Examples: 44, 25-35, >125'. At the bottom of the search panel is a large blue 'Search' button.

寻找分子量在250-400之间的物质

物质结果集的筛选——Refine

SUBSTANCES ?

Get References | Get Reactions | Get Commercial Sources | Tools ▾

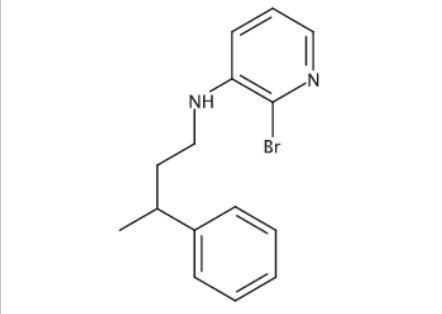
Analyze Refine

Sort by: CAS Registry Number ▾

0 of 45142315 Substances Selected

1. 1986293-22-4

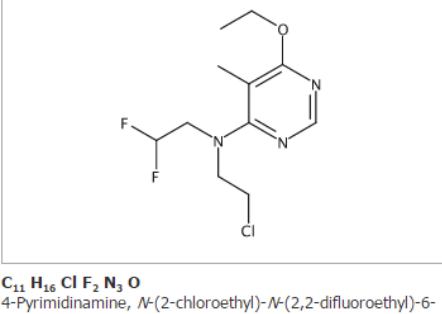
~0



C₁₅H₁₇BrN₂
3-Pyridamine, 2-bromo-N-(3-phenylbutyl)-

2. 1986293-21-3

~0



C₁₁H₁₆ClF₂N₃O
4-Pyrimidamine, N-(2-chloroethyl)-N-(2,2-difluoroethyl)-6-ethoxy-5-methyl-

Key Physical Properties

4. 1986293-16-6

5. 1986293-14-4

Structure Editor:
Java Non-Java
Click to Edit

Search type: Exact Structure

Only retrieve substances

4500多万个结构，
如何筛选黄酮类物质？

物质结果集的筛选——Refine

The screenshot shows the Substance Editor interface with the 'Refine' tab selected. On the left, under 'Refine by:', 'Chemical Structure' is selected. Below it, a 'Structure Editor' panel displays a chemical structure of a substituted quinoline ring system. A purple box highlights the 'Lock' icon in the toolbar. The right side of the interface shows the 'Structure Editor' window with the same chemical structure drawn. The molecular formula C13H10O2 and MW 222.24 are displayed at the bottom. A search bar at the top of the editor window contains the text 'Draw or change atoms or bonds.'

锁环工具：避免在被锁定的环结构上出现新的环结构

物质检索结果集

Explore ▾ Saved Searches ▾ SciPlanner

Property "Predicted - Molecular Weight, ..." > substances (45142315) > refine "substructure" (16901)

SUBSTANCES 0 of 16901 substances Selected

Analyze Refine

Sort by: Relevance

Refine by: ① Chemical Structure

② Isotope-Containing

③ Metal-Containing

④ Commercial Availability

⑤ Property Availability

⑥ Property Value

⑦ Reference Availability

⑧ Atom Attachment

Structure Editor: Java Non-Java

Click image to change structure or view detail.

Search type: Substructure

从4500多万个结构中筛选出16901个黄酮类物质

1. 1373355-19-1

C₁₇H₁₄O₂
4H-1-Benzopyran-4-one, 2-(3,5-dimethylphenyl)-

Key Physical Properties

2. 912915-64-1

C₁₅H₁₀O₄
4H-1-Benzopyran-4-one, 2-(3,5-dihydroxyphenyl)-

Key Physical Properties

4. 6665-68-5

5. 22395-22-8

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物质检索——分子式

检索(N H4) Sm (S O4)2 (H2 O)4, Ammonium Samarium Bis(sulfate(VI)) Tetrahydrate

Explore ▾ Saved Searches ▾ SciPlanner

Property "Experimental - Electric Conduc..." > substances (51)

REFERENCES

- Research Topic
- Author Name
- Company Name
- Document Identifier
- Journal
- Patent
- Tags

SUBSTANCES

- Chemical Structure
- Markush
- Molecular Formula
- Property
- Substance Identifier

SUBSTANCES: MOLECULAR FORMULA ?

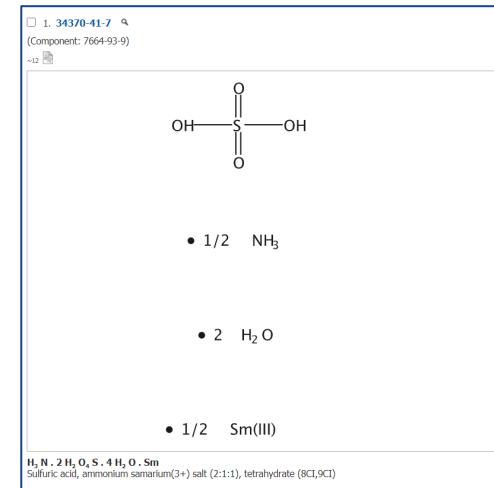
H3 N . 2 H2 O4 S . 4 H2 O . Sm

Examples:
H4SiO4
(C3H6O.C2H4O)x

Search

分子式输入需要遵守Hill排序规则：不含碳化合物，按元素符号的字母顺序排列；分子式为含碳化合物时，则“C”在前；如有氢则紧随其后，其它元素符号按字母顺序排在氢的后面

1. 金属盐：金属离子和阴离子间用点（.）分开
2. 不同组份之间用点（.）分开

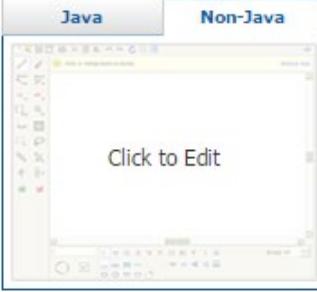


物质检索——结构

SUBSTANCES: CHEMICAL STRUCTURE 

Structure Editor:

Java Non-Java



Click to Edit

Show precision analysis

 ChemDraw®
Launch a SciFinder substance or reaction search

Search

Advanced Search Always Show

REFERENCES

- Research Topic
- Author Name
- Company Name
- Document Identifier
- Journal
- Patent
- Tags

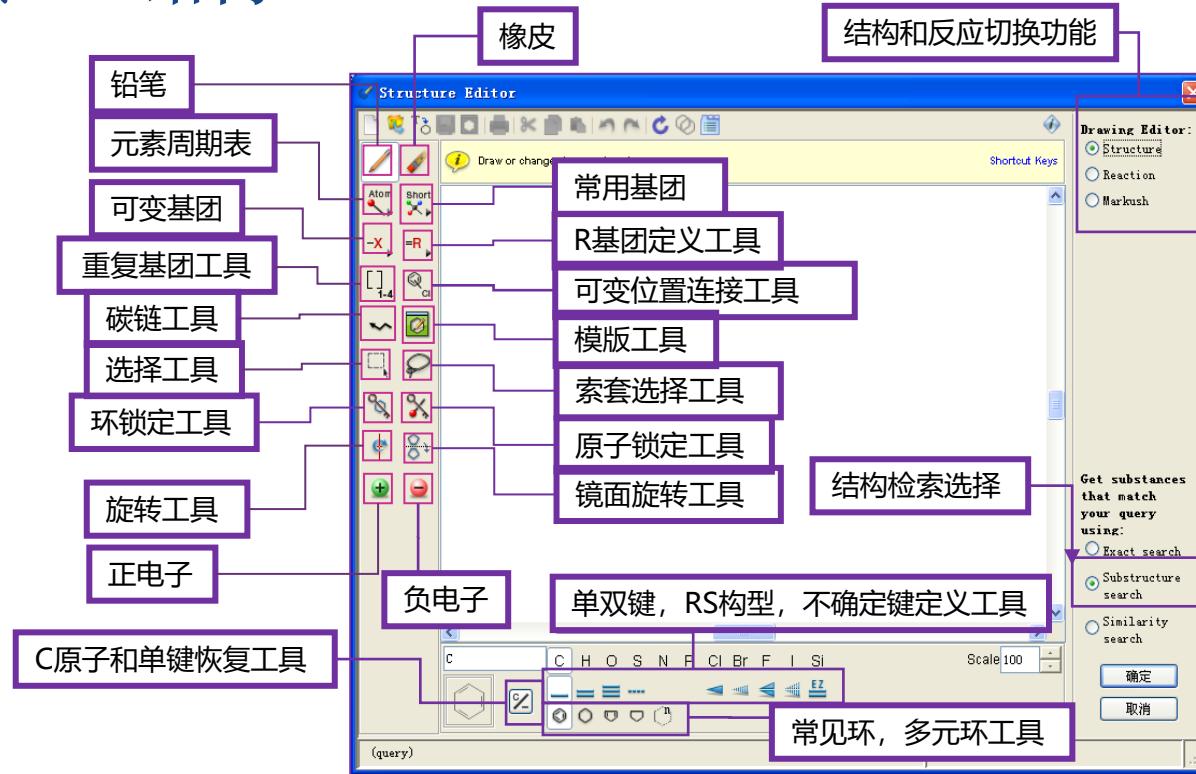
SUBSTANCES

- Chemical Structure
- Markush
- Molecular Formula
- Property
- Substance Identifier

REACTIONS

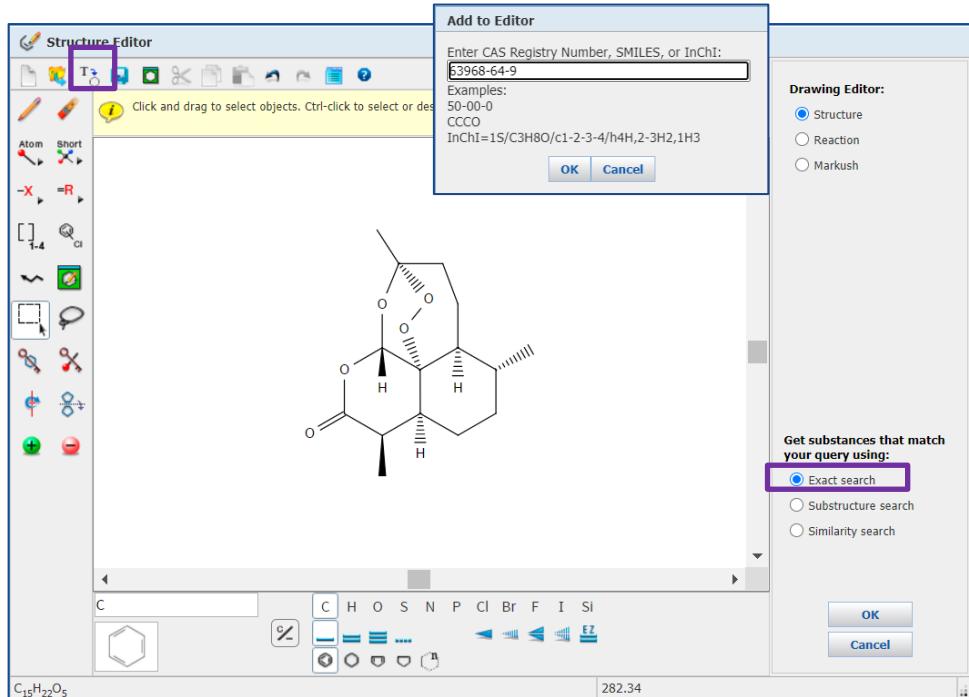
- Reaction Structure

物质检索——结构



物质检索——精确结构检索

检索青蒿素的组合物



Select All Deselect All

1 of 5 Stereo Candidates Selected

- Absolute stereo match
- Absolute stereo mirror image
- Relative stereo match
- Stereo that doesn't match query
- No stereo in answer structure

Get Substances

精确结构检索



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精确结构检索结果集

0 of 59 Substances Selected

1. 63968-64-9	2. 1061342-74-2	3. 1201556-23-1	4. 436149-07-4
 Absolute stereochemistry. <chem>C15H22O5</chem> 3,12-Epoxy-12H-pyranol[4,3- β]-1,2-benzodioxepin-10(3H)-one, octahydro-3,6,9-trimethyl-, (3R,5aS,6R,8aS,9R,12S,12aR)-	 Absolute stereochemistry. <chem>C15H22O5</chem> 63968-64-9	 Absolute stereochemistry. <chem>C15H22O5</chem> 63968-64-9	 Absolute stereochemistry. <chem>C15H22O5</chem> 63968-64-9
Key Physical Properties Regulatory Information Spectra Experimental Properties	 <chem>C29H32Cl2N6</chem> 4085-31-8	 <chem>C24H28ClN3O</chem> 173531-58-3	 <chem>C42H70O35</chem> 7585-39-9
 <chem>C15H21N3O</chem> 90-34-6	 <chem>C24H28ClN3O</chem> 173531-57-2	 <chem>H3O4P</chem> 7664-38-2	 β-Cyclodextrin, compd. with (3R,5aS,6R,8aS,9R,12S,12aR)-octahydro-3,6,9-trimethyl-, (3R,5aS,6R,8aS,9R,12S,12aR)-, mixt. with M-(6-methoxy-8-quinolinyl)-1,4-pentanediamine and 4,4'-(1,3-propanediyldi-4,1-piperazinediyl)bis[7-chloroquinoline] phosphate

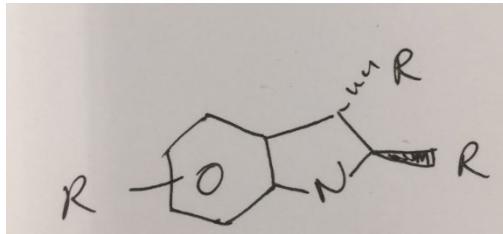
物质检索——精确结构检索

- 精确结构检索：

获得被检索结构的盐、混合物、配合物、聚合物等，被检结构不能被取代

物质检索——亚结构检索

具有下图母核结构的药物分子



Structure Editor

Click a ring system to block it from further ring fusion. Click a chain to block it from ring formation.

Drawing Editor:

- Structure
- Reaction
- Markush

Variables

- X Any halogen
- M Any metal
- A Any atom except H
- Q Any atom except C or H
- Ak Any carbon chain
- Cy Any cycle
- Cb Any carbocycle
- Hy Any heterocycle

Close

Create Saved Answer Sets

View All | Import

KEEP ME POSTED ⓘ

MRF
Oct 14, 2017(10)

scifinder
Oct 14, 2017(7)
Oct 07, 2017(2)
Sep 30, 2017(11)

Get substances that match your query using:

- Exact search
- Substructure search
- Similarity search

OK Cancel

A

C H O S N P Cl Br F I Si

Chemical structure input area showing a bicyclic system with two 'A' labels. Below the input area are buttons for element selection (C, H, O, S, N, P, Cl, Br, F, I, Si) and bond types (single, double, triple, aromatic).

物质检索——亚结构检索

Select All Deselect All

1 of 5 Stereo Candidates Selected

	Substances
<input checked="" type="checkbox"/> Absolute stereo match	304
<input type="checkbox"/> Absolute stereo mirror image	60
<input type="checkbox"/> Relative stereo match	656
<input type="checkbox"/> Stereo that doesn't match query	3388
<input type="checkbox"/> No stereo in answer structure	17327

[Get Substances](#)

选择绝对立体构型完全匹配的候选项

物质检索——亚结构检索

查看结果集，根据适应症或靶点信息选取分子

Chemical Structure substructure > substances (304)

SUBSTANCES Get References Get Commercial Sources Tools Create Keep Me Posted Alert Send to SciPlanner

Analyze Refine Sort by: CAS Registry Number 0 of 304 Substances Selected Page: 1 of 7

Analyze by: Bioactivity Indicators

- Antineoplastic agents
- Antidiabetic agents
- Antiobesity agents (all)
- Cardiovascular agents (all)

Show More

1. 2096301-64-1 Absolute stereochemistry, Rotation (+).

2. 2096301-63-0

3. 2030136-54-8

Chemical Structure substructure > substances (304)

SUBSTANCES Get References Get Commercial Sources Tools Create Keep Me Posted Alert Send to SciPlanner

Analyze Refine Sort by: CAS Registry Number 0 of 304 Substances Selected Page: 1 of 7

Analyze by: Target Indicators

- Enzymes (all) 167
- Receptors (all) 15
- Lipoproteins (all) 9

Show More

1. 2096301-64-1 Absolute stereochemistry, Rotation (+).

2. 2096301-63-0

3. 2030136-54-8

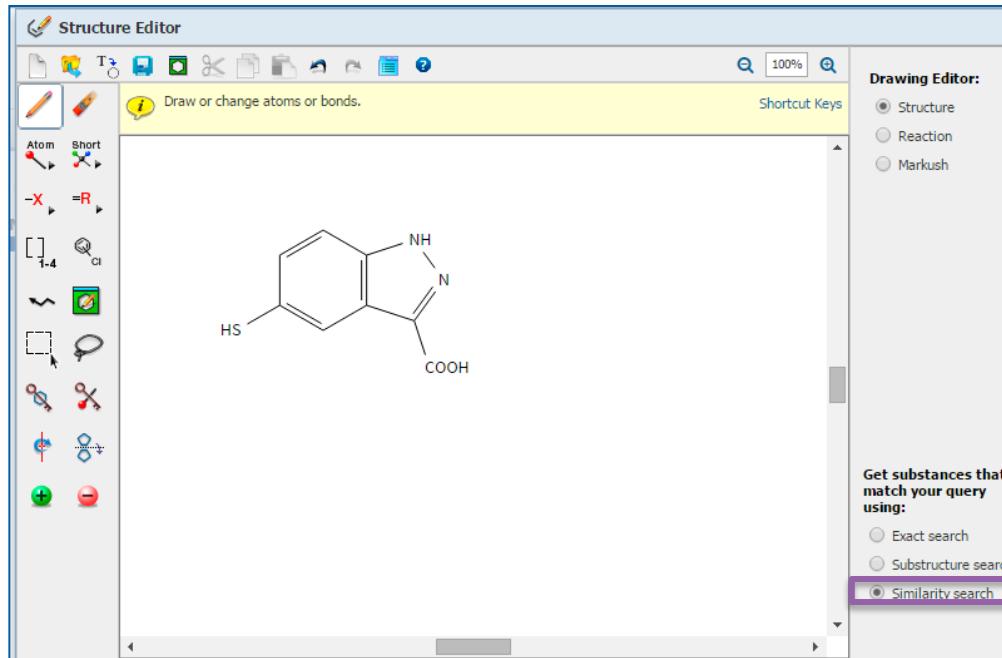
C₁₈ H₂₆ Br N
1*H*-Indole, 5-bromo-2-[{(1*R*)-1-ethenyl}-2,3-dihydro-3-methyl-, (2*S*,3*S*)-

物质检索——亚结构检索

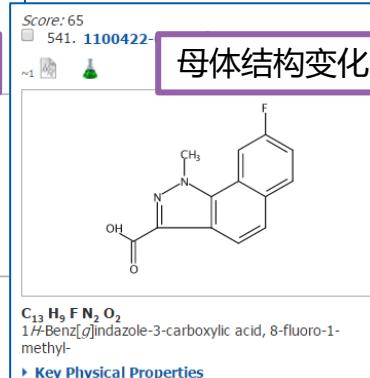
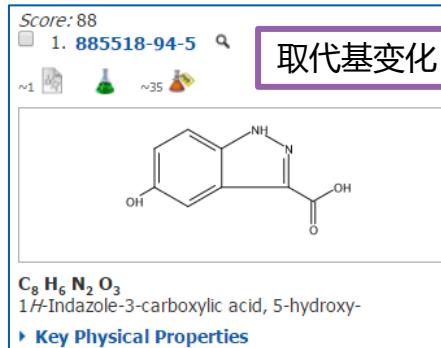
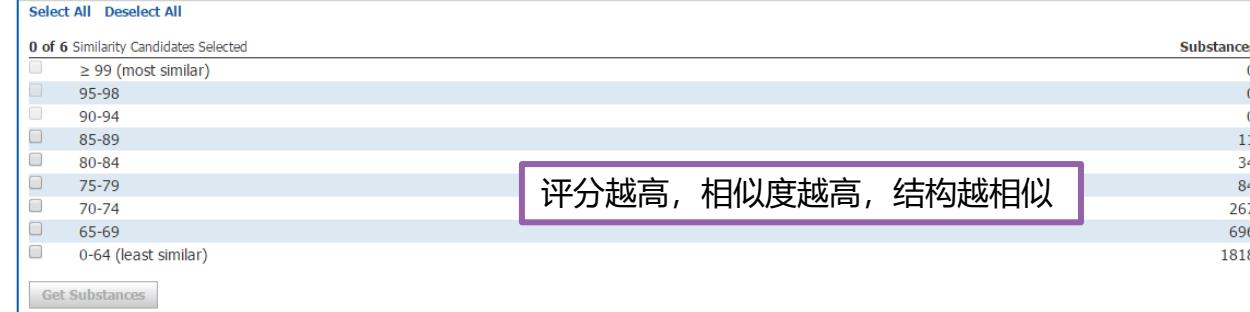
- 亚结构检索：

包括精确结构检索结果，及被检索结构的修饰结构

物质检索——相似结构检索



相似结构检索结果



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物质检索——相似结构检索

- 相似结构检索：

获得片段或整体结构与被检索结构相似的结果，母体结构可以被取代，也可以被改变

提纲

- 美国化学文摘社简介
- SciFinder简介及检索方式
 - 文献检索 (PatentPak及MethodsNow-ANA的应用)
 - 物质检索
 - Markush检索
 - 反应检索 (MethodsNow-SYN的应用)
 - SciPlanner
- SciFinder常见问题及解决

Markush检索

(19) 中华人民共和国国家知识产权局

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A61P 25/28(2006.01)
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(51) Int. Cl.
C07K 5/087(2006.01)
C07K 5/089(2006.01)

权利要求书3页 说明书24页 图4页

(54) 发明名称
杂环构建的三肽环氧化物及制备和应用

(57) 摘要
本发明提供一种杂环构建的三肽环氧化物化合物,以Carfilzomib为先导化合物,经缩合、酸性条件下脱去Boc保护基、碱性条件下反应得氨基甲酰异恶唑酸、水解,在缩合剂作用下获得。本发明是小分子短肽类蛋白酶体抑制剂,本发明化合物具有极强的蛋白酶体抑制活性及细胞增殖抑制活性,是有前景的蛋白酶体抑制剂,为癌症治疗药物的研究提供了新的思路。本发明化合物的合成所需原料易得,路线设计合理,反应条件温和,各步产率高,操作简便,适合工业化生产。具有下述式1的结构通式:

101915170
CN

具体实施方式

[0026] 本发明结合附图和实施例作进一步的说明,以下实施例仅是说明本发明,而不是以任何方式限制本发明。

[0027] 制备实施例1、4-(吡嗪-2-基氨基甲酰基)哌啶-1-甲酸叔丁酯(1a,1b)

将1-(叔丁氧羰基)哌啶-4-甲酸(2.75g,12mmol)置于50mL三颈瓶中, N_2 保护下加入25mL无水 CH_2Cl_2 , 然后缓缓滴入吡啶(2.5mL,30mmol)和二氯亚砜(1.1mL,14mmol), 该反应液置于室温反应半小时。随后,2-氨基吡嗪(0.95g,10mmol)和三乙胺(5.7mL,40mmol)溶于15mL CH_2Cl_2 后缓缓滴入上述反应液,室温反应6小时。反应液加30mL饱和食盐水稀释,分出有机层,水层 CH_2Cl_2 提取(15mL×3),合并有机层,无水硫酸钠干燥后减压除去溶剂,柱层析分离得白色固体2.3g,收率74%。 $m.p.$: 134~136°C; 1H NMR (500MHz, $CDCl_3$): δ = 9.55 (s, 1H, pyrazine-H), 8.35 (d, 1H, J =2.0Hz, pyrazine-H), 8.23 (s, 1H, pyrazine-H), 7.97 (s, 1H, NH), 4.20 (m, 2H, CH_2), 2.81 (m, 2H, CH_2), 2.48 (m, 1H, CH), 1.93 (d, 2H, J =12.5Hz, CH_2), 1.76 (m, 2H, CH_2), 1.47 (s, 9H, CH_3) ppm; ESI-MS: m/z = 307 [M+H] $^+$ 。

[0028] 制备实施例2、4-(吡嗪-2-酰基)哌嗪-1-甲酸叔丁酯(1c,1d)

吡嗪-2-羧酸(1.5g,12mmol)置于50mL反应瓶中,加入35mL无水 CH_2Cl_2 溶解,随即加入1-羟基苯并三氮唑(1.6g,12mmol)和N-(3-(2-甲氨基丙基)-N' -乙基碳二亚胺盐酸盐(3.5g,18mmol),室温反应半小时。随后,哌嗪-1-甲酸叔丁酯(1.9g,10mmol)加入反应液中,室温反应3小时。反应液加入30mL饱和碳酸氢钠水溶液稀释,分出有机层,饱和食盐

具体物质[Specific Substance]:

以具体化学结构陈述的特定物质,会被分配CAS RN



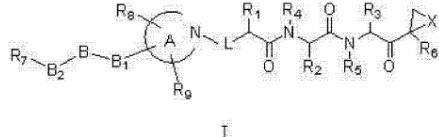
Markush检索

CN 104945470 A

权 利 要 求 书

1/3 页

1. 一种杂环构建的三肽环氧酮类化合物，具有下述结构通式 I：



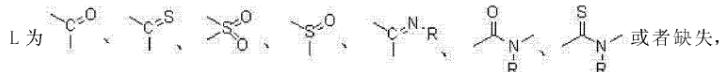
其中：

R₁, R₂, R₃ 各自独立选自 H、C₁₋₆ 烷基 -D、卤代的 C₁₋₆ 烷基 -D、C₁₋₆ 羟基烷基、C₁₋₆ 硫基烷基、C₁₋₆ 烷氧基烷基、芳基、芳烷基、杂芳基或杂芳烷基；其中，D 为 N(R_a) (R_b) 或缺失，R_a, R_b 各自独立选自 H、OH、C₁₋₆ 烷基、卤代的 C₁₋₆ 烷基或 N 末端保护基；

R₄, R₅ 各自独立选自 H、OH、C₁₋₆ 烷基、卤代的 C₁₋₆ 烷基或芳烷基；

R₆ 选自 H, C₁₋₆ 烷基, 卤代的 C₁₋₆ 烷基, C₁₋₆ 羟基烷基, C₁₋₆ 烷氧基, 卤代的 C₁₋₆ 烷氧基, C(0)O-C₁₋₆ 烷基, C(0)NH-C₁₋₆ 烷基, 芳烷基；

X 为 O、S、NH、N-C₁₋₆ 烷基或 N- 卤代的 C₁₋₆ 烷基；



其中 R 选自 H、C₁₋₆ 烷基或卤代的 C₁₋₆ 烷基；

环 A 选自 5 ~ 7 元的饱和脂肪杂环、不饱和杂环、或者有取代的 5 ~ 7 元的饱和脂肪杂环、不饱和杂环，所述的杂环包含 0 ~ 3 个选自 O、N 和 S 的杂原子并任选地被 R₈、R₉ 和 B₁ 基团取代；

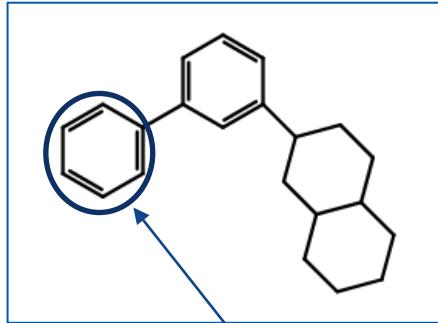
R₈, R₉ 分别独立选自 H、OH, C₁₋₆ 烷基, C₁₋₆ 烷氧基, C₁₋₆ 羟基烷基, C₁₋₆ 硫基烷基, C₁₋₆ 烷基 -D, 芳基, 杂环芳基, 环烷基和杂环基, 这些基团可以被卤素、硝基、氨基、CN、C₁₋₆ 烷基、卤代的 C₁₋₆ 烷基, C₁₋₆ 烷氧基或卤代的 C₁₋₆ 烷氧基取代, 每个基团可与一个或多个芳基或杂环

预测性物质[Prophetic Substance]：

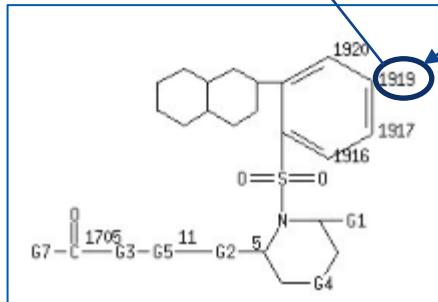
- 使用Markush结构陈述的预测物质，一个Markush可以陈述上百或上千个化学物质
- 被Markush结构包含，但未被实施或呈现在表格、权利要求书或说明书中的结构，不会被CAS分配CAS Registry Number
- Markush检索，能检索到通过结构检索检不到的专利

Markush检索

检索式



专利文献中匹配的Markush结构



1916, 1917, 1919, 1920: opt. substd. by Ph

Patent location:

claim 1

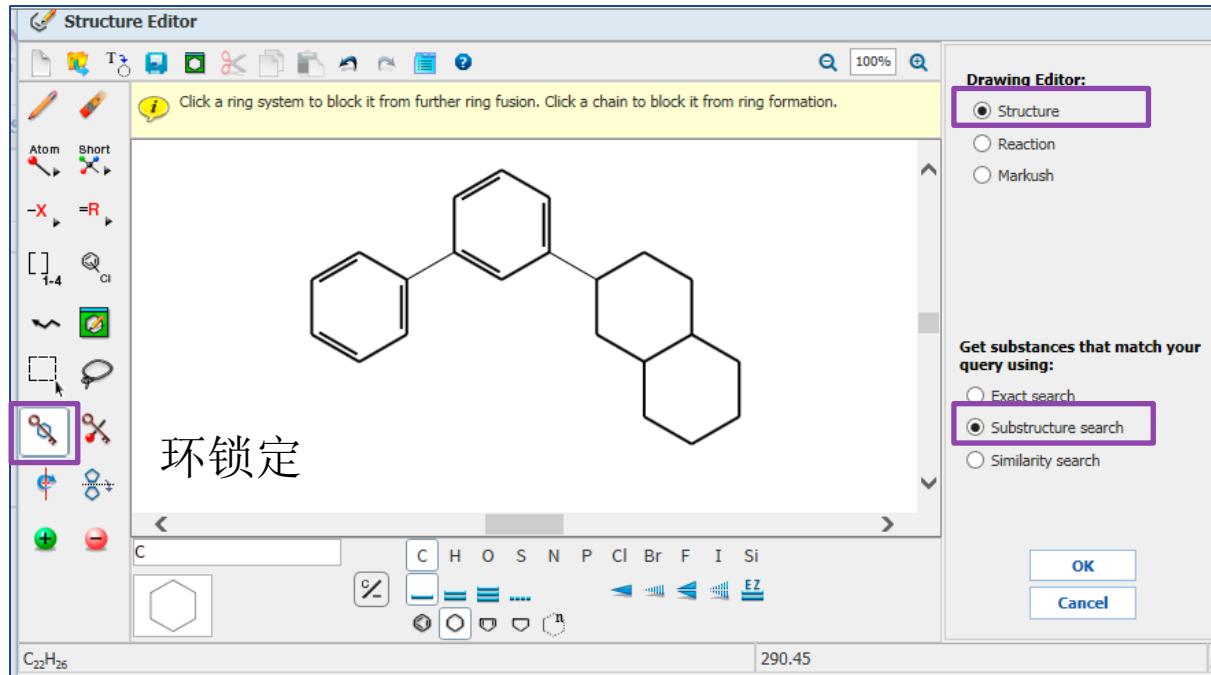
Note:

or pharmaceutically acceptable salts, prodrugs, or metabolites

Note:

additional oxo-substitution also disclosed
also incorporates claim 35

Markush检索



环锁定

结构检索

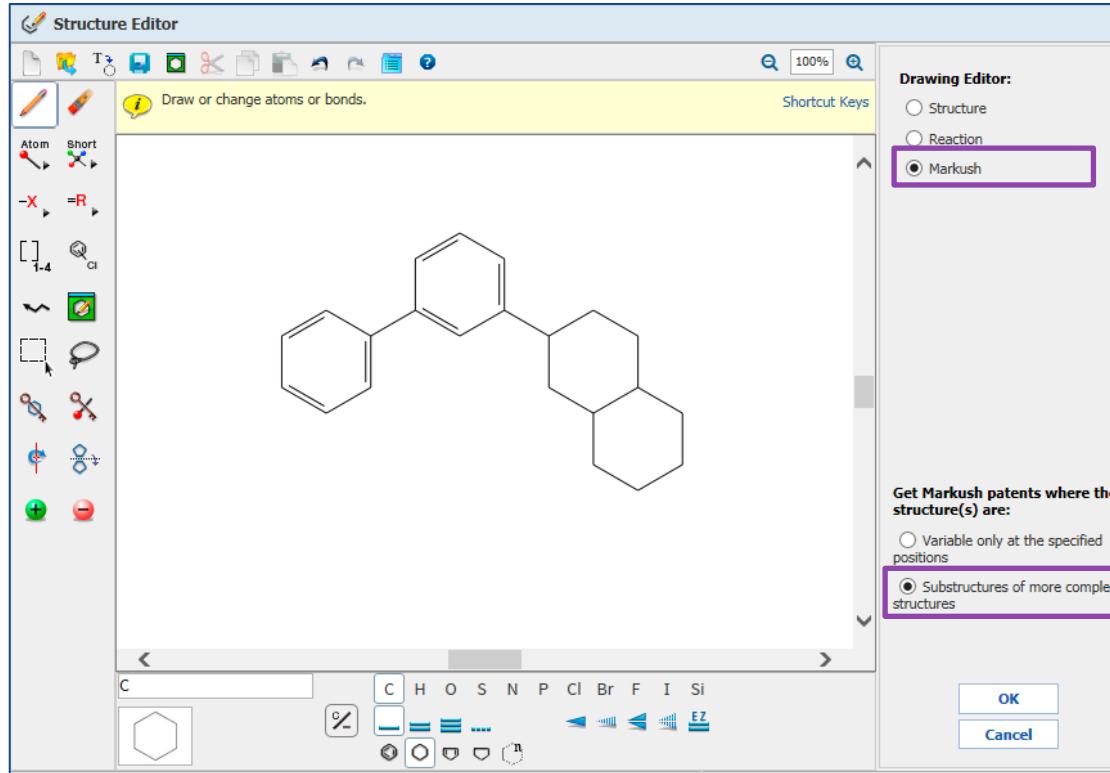
亚结构检索

Markush检索

The screenshot shows the SciFinder interface. At the top, there is a logo for "SCI-FINDER® A CAS SOLUTION" and a welcome message "Welcome Xiaoyan Z Cheng". Below the header, there are navigation links for "Explore", "Saved Searches", and "SciPlanner". A yellow banner at the top indicates "Explore Substances resulted in 0 substances" with a "Return" link. The main search area shows a breadcrumb trail "Chemical Structure substructure > substances (0)". On the left, there is a "SUBSTANCES" section with "Analyze" and "Refine" buttons, and a note "Analyze by: No substances available". On the right, there is a "Create Keep Me Posted Alert" button.

物质亚结构检索结果集：零！

Markush检索



Markush检索

亚结构检索

Markush检索

0 of 24 References Selected

1. Compounds for the modulation of proprotein convertase subtilisin/kexin type 9 (PCSK9)
Quick View PATENTPAK ▾
By Bowers, Simeon; Karbarz, Mark; Zhu, Jiang; Barta, Thomas E.; Bourne, Jonathan William; Pandey, Anjali
From PCT Int. Appl. (2020), WO 2020252383 A2 20201217. | Language: English, Database: CAPLUS
The present disclosure relates to novel compds. capable of binding to PCSK9, thereby modulating PCSK9 biol. activity. Also provided are compns. comprising these compds., methods of prep. the compds., and methods for use of the compds. in the treatment of PCSK9-related conditions and diseases.

2. Preparation of hole transport material for OLED
Quick View PATENTPAK ▾
By Wang, Yalong; Li, Hongyan; Xue, Zhen; Wang, Jinping; Chen, Zhiwei; Li, Lingang; Yan, Shan; Wang, Weijun; Ren, Zenggang
From Faming Zhanli Shenqing (2019), CN 110156746 A 20190823. | Language: Chinese, Database: CAPLUS
The title hole transport material with general formula of $R^1Ar^1-N(Ar^2R^3)-Ar^3R^2$, wherein, Ar^1-Ar^3 are independently selected from substituted or unsubstituted C6-30 arylene, including phenylene, bis-phenylene, heteroarylene, etc.; R^1-R^3 are independently selected from H, substituted or unsubstituted C8-30 alkyl, substituted or unsubstituted C8-30 alkenyl, substituted or unsubstituted C8-30 alkynyl, etc. The inventive hole transport material is not only suitable for solar cells, but also suitable for org. semiconductor and other photoelec. fields.

3. Process for the reduction of the NOx emissions with combustion engines by fuel additives.
Quick View PATENTPAK ▾
By Kantlehner, Willi
From Ger. Offen. (2019), DE 102018001260 A1 20190822. | Language: German, Database: CAPLUS
Processes are claimed, with which the nitrogen oxide contents in the exhaust gas of fuel-powered piston engines can be reduced, as additives - fed together or sep. - are supplied to the combustion chamber, in addn. to fuel, and the additives are preferably nitriles or org., nitrogen-contg. nitrile precursors, from which thermolysis products develop in the combustion chamber, which react with nitrogen oxides to form carbon dioxide and nitrogen.

4. Polymerizable compound with good storage stability for optically anisotropic article
Quick View PATENTPAK ▾
By Horiguchi, Masahiro; Aoki, Yoshio; Hayashi, Taku; Tsuruta, Toru
From Jpn. Kokai Tokkyo Koho (2017), JP 2017218391 A 20171214. | Language: Japanese, Database: CAPLUS
$$P^1-\left(Sp^1-X^{11}_{k1}\right)-A^1-Z^1-B^1-Z^2-A^2-R^2$$
 (i) The present invention relates to a monomer of $P^1-(Sp^1-X^{11}_{k1})-A^1-Z^1-B^1-Z^2-A^2-R^2$, wherein P^1 = radical, cationic, or anionic polymerizable group; Sp^1 = independently spacer or direct bond; X^{11} = independently O, S, OCH_2 , CH_2O , CO, COO, etc.; $k1$ = 1-10 integer; A^1 , A^2 , B^1 = independently aliph. or arom.-aliph. fused ring optionally contg. O in the ring; Z^1 , Z^2 = independently O, S, OCH_2 , CH_2O , etc.; and R^2 = H, F, Cl, I, etc.

Markush检索结果集： 24项专利！

Markush检索

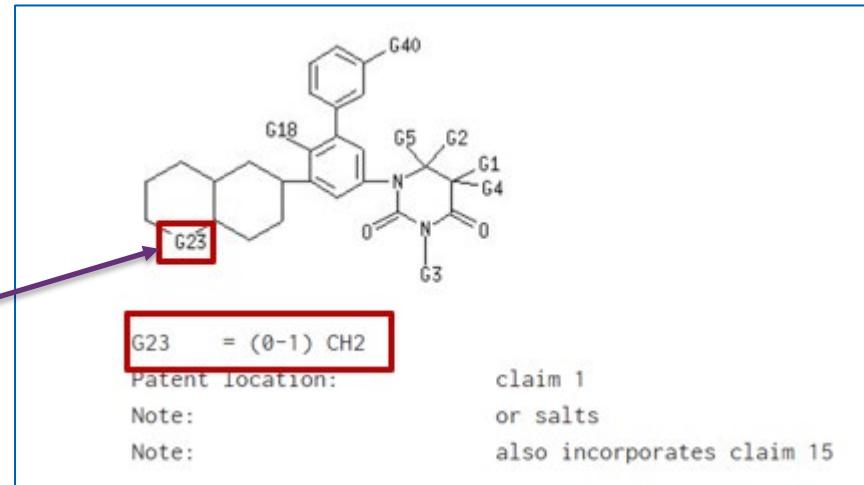
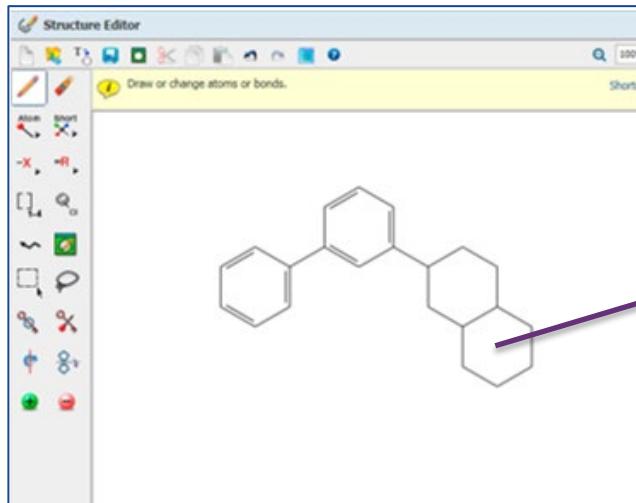
1. Preparation of anti-infective pyrimidines for treating hepatitis C

Quick View

PATENTPAK

By Flentge, Charles A.; Hutchinson, Douglas K.; Betebenner, David A.; Degoey, David A.; Donner, Pamela L.; Kati, Warren M.; Krueger, Allan C.; Liu, Dachun; Liu, Yaya; Longenecker, Kenton L.; et al
From PCT Int. Appl. (2009), WO 2009039134 A1 20090326. | Language: English, Database: CAPLUS

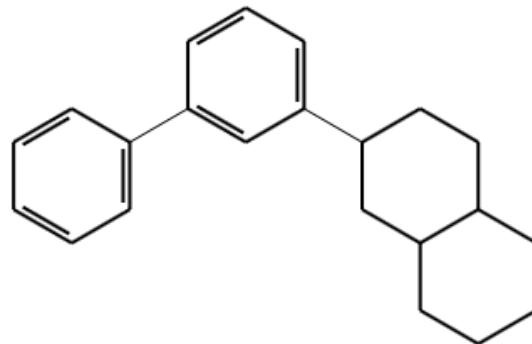
This invention relates to: (a) compds. and salts thereof that, inter alia, inhibit HCV; (b) intermediates useful for the prepn. of such compds. and salts; (c) compns. comprising such compds. and salts; (d) methods for prep., such intermediates, compds., salts, and compns.; (e) methods of use of such compds., salts, and compns.; and (f) kits comprising such compds., salts, and compns. The compds. of the invention have general formula I (wherein the dotted bond is either a single or double bond; R¹ is H, Me, and nitrogen-protecting group; R² is H, halo, OH, Me, cyclopropyl, and cyclobutyl; R³ i...)



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Markush检索



亚结构检索结果集：0

Markush检索结果集：24项专利

确定设计的物质新不新，有必要同时进行结构检索和Markush检索

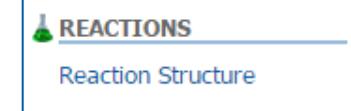
提纲

- 美国化学文摘社简介
- SciFinder简介及检索方式
 - 文献检索 (PatentPak及MethodsNow-ANA的应用)
 - 物质检索
 - Markush检索
 - 反应检索 (MethodsNow-SYN的应用)
 - SciPlanner
- SciFinder常见问题及解决

SciFinder检索——反应检索

- 反应检索方法

- 结构式



- 常用获取方法

- 已知物质：由物质获取反应

- 已知文献：从文献中获取反应

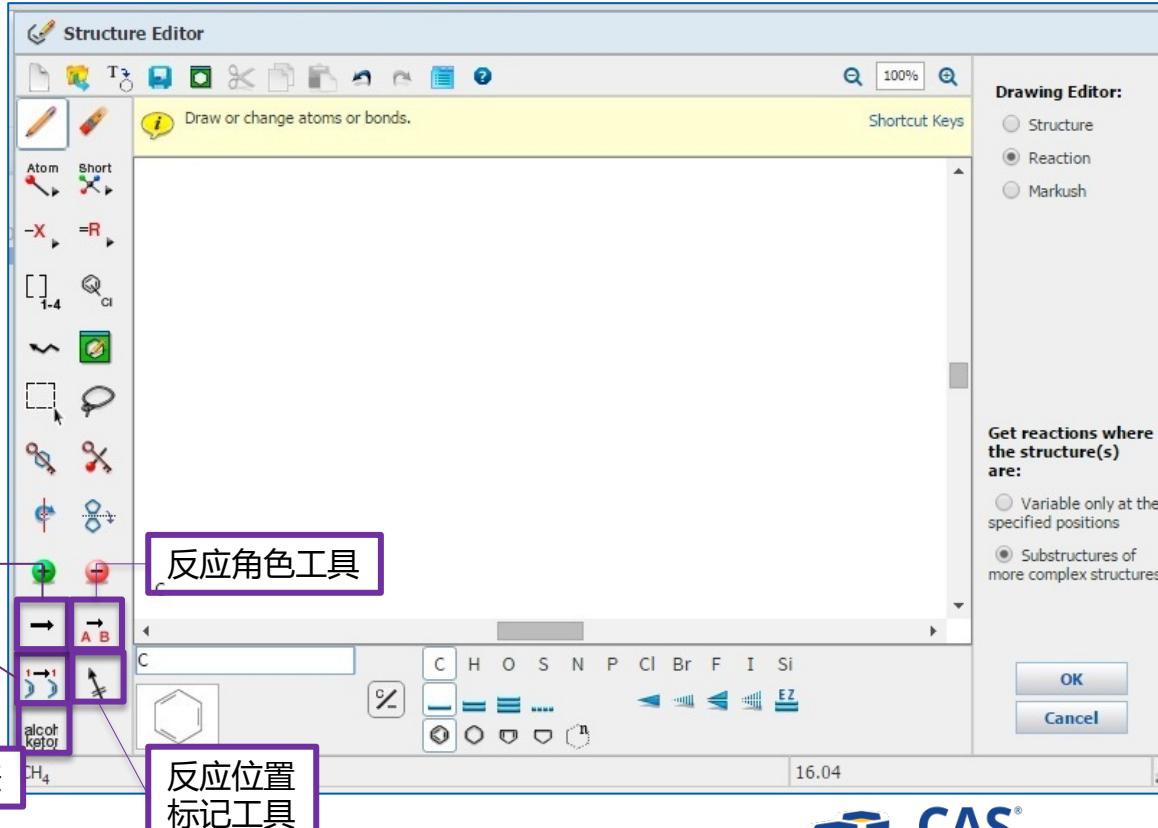
- 精确结构反应检索

- 亚结构反应检索

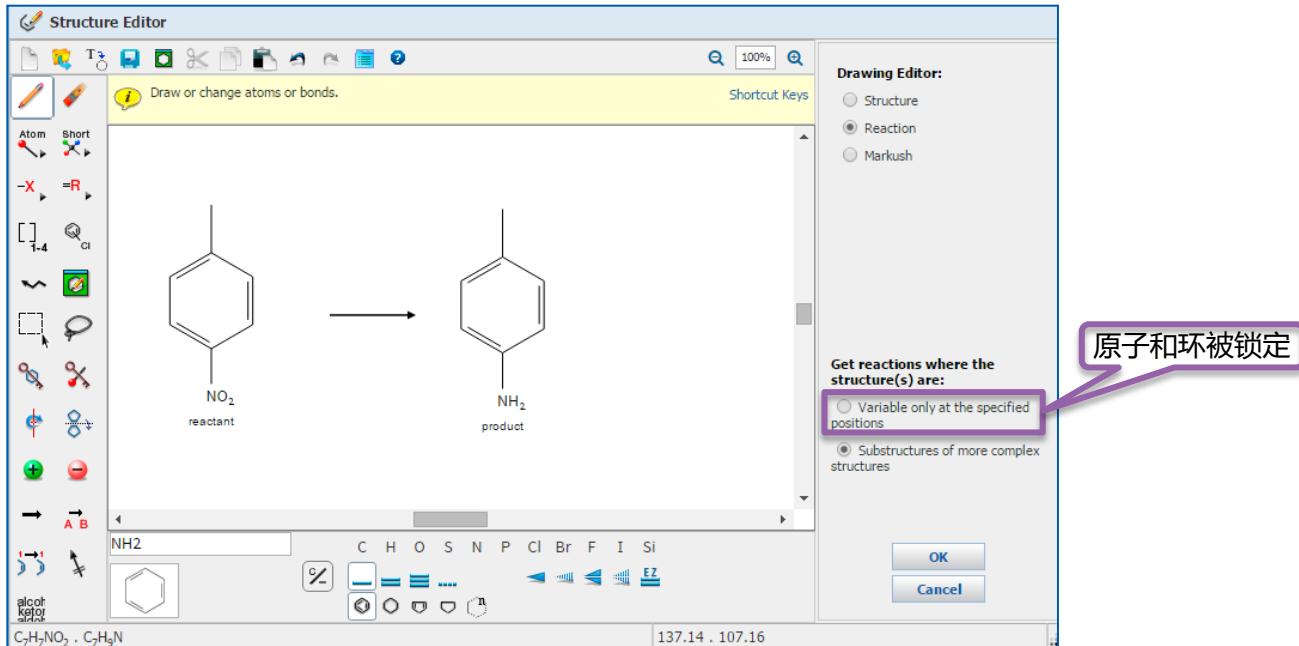
Get reactions where
the structure(s)
are:

- Variable only at the
specified positions
- Substructures of
more complex structures

反应绘制工具



SciFinder反应检索——原子和环被锁定



反应检索结果

浏览记录，发现很多反应来自同一篇文献，通过Group by Document合并。

Group by: No Grouping ▾ Sort by: Relevance

Document Selected

1. View Reaction Detail Similar Reactions

Single Step Hover over any structure for more options.



Overview

Steps/Stages

1.1 R:NaBH₄, C:1832616-28-0, C:Ru, S:H₂O, S:THF, 45 min, 25°C

Notes

solid-supported catalyst, ruthenium supported on porous organic polymer used, reusable catalyst, sealed tube used, scalable, Reactants: 1, Reagents: 1, Catalysts: 2, Solvents: 2, Steps: 1, Stages: 1, Most stages in any one step: 1

References

Fabrication of Ruthenium Nanoparticles in Porous Organic Polymers: Towards Advanced Heterogeneous Catalytic Nanoreactors

获取相似反应

选择相似反应的相似限制:

Broad: 仅反应中心相似

Medium: 反应中心及附属原子和键

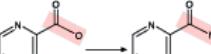
Narrow: 反应中心及扩展的原子和键

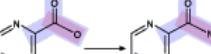
Get Similar Reactions ?

Retrieve similar reactions from:

All reactions
 Current answer set

Include this level of similarity:

Broad - Reaction centers only (2934)


Medium - Reaction centers plus adjacent atoms and bonds (109)


Narrow - Reaction centers plus extended atoms and bonds (95)


[Get Reactions](#) [Cancel](#)

按照反应类型排序

Group by: Transformation ▾ Sort by: Frequency ▾

0 of 560 Reactions Selected

1. Reduction of Nitro Compounds to Amines
538 Reactions

$$\text{R}-\text{NO}_2 \longrightarrow \text{R}-\text{NH}_2$$

2. Reduction of Nitro to Azo Compounds
11 Reactions

$$\text{Ar}-\text{NO}_2 \longrightarrow \begin{array}{c} \text{Ar} \\ | \\ \text{N}=\text{N} \\ | \\ \text{Ar} \end{array}$$

3. Reduction of Nitro to Azoxy Compounds
11 Reactions

$$\text{Ar}-\text{NO}_2 \longrightarrow \begin{array}{c} \text{O}^- \\ || \\ \text{N}^+=\text{N} \\ | \\ \text{Ar} \end{array}$$

更精确的查找需要的反应



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反应检索结果的筛选

获得特定物质做还原剂的反应

The screenshot shows a search interface for reactions. On the left, a sidebar lists reagents with their counts: H₂ (162), NaBH₄ (51), N₂H₄·H₂O (43), KOH (17), CO (16), HCO₂H (16), NH₄⁺·HCO₃⁻ (16), H₂O (14), N₂H₄ (14), NaOH (14). A purple box highlights NaBH₄. The main area displays a reaction scheme: 4-nitrobenzene reacts with NaBH₄ to form 4-aminobenzene, with a yield of 100%. Below the reaction scheme, the 'Overview' section details the reaction conditions: R:NaBH₄, C:1832616-28-0, C:Ru, S:H₂O, S:THF, 45 min, 25°C. The 'Notes' section states: solid-supported catalyst, ruthenium supported on porous organic polymer used, reusable catalyst, sealed tube used, scalable. The 'References' section lists a single paper: 'Fabrication of Ruthenium Nanoparticles in Porous Organic Polymers: Towards Advanced Heterogeneous Catalytic Nanoreactors'.

0 of 512 Reactions Selected

1. View Reaction Detail Similar Reactions

Single Step Hover over any structure for more options.

Reagent: NaBH₄ (51)

Reaction Scheme:

4-nitrobenzene → 4-aminobenzene (100%)

Overview

Steps/Stages

1.1 R:NaBH₄, C:1832616-28-0, C:Ru, S:H₂O, S:THF, 45 min, 25°C

Notes

solid-supported catalyst, ruthenium supported on porous organic polymer used, reusable catalyst, sealed tube used, scalable, Reactants: 1, Reagents: 1, Catalysts: 2, Solvents: 2, Steps: 1, Stages: 1, Most stages in any one step: 1

References

Fabrication of Ruthenium Nanoparticles in Porous Organic Polymers: Towards Advanced Heterogeneous Catalytic Nanoreactors

SciFinder囊括全球最大的反应实验过程合集

Single Step Hover over any structure for more options.

100%
~122

100%
~122

▼ Overview

Steps/Stages

1.1 R:H₂, R:Cs₂CO₃, C:1610424-70-8, C:1034343-98-0 (oxide), S:PhMe, 2 h, 100°C, 1 atm solid-supported catalyst, palladium catalyst supported on graphene oxide prepared and used, reusable catalyst, Reactants: 1, Reagents: 2, Catalysts: 2, Solvents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

Notes

Catalyst Enhancement and Recyclability by Immobilization of Metal Complexes onto Graphene Surface by Noncovalent Interactions

Quick View Other Sources
By Sabater, Sara et al
From ACS Catalysis, 4(6), 2038-2047; 2014

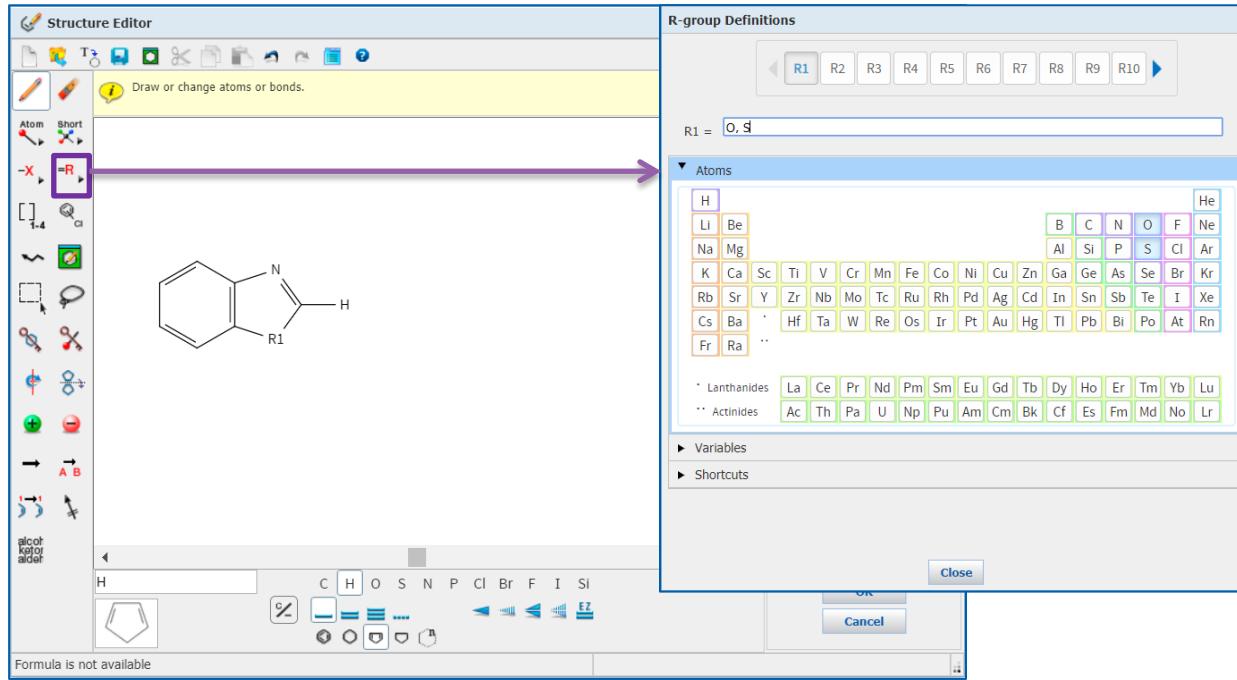
▼ Experimental Procedure

General/Typical Procedure: **General Procedure for Nitroarene Reductions.** Molecular hydrogen was added with a balloon filled with 1 atm of H₂ to a mixture of nitroarene (0.3 mmol), Cs₂CO₃ (0.3 mmol), anisole as internal standard (0.3 mmol), and NHC-Pd-rGO (6×10^{-3} mmol, based on metal) in toluene (5 mL). The system was then evacuated and backfilled with H₂ in cycles for three times before putting the reaction vessel in an oil bath at 100°C for 2h. Yields were determined by GC analyses using anisole (0.3 mmol) as internal standard. Products were identified according to spectroscopic data of the commercially available compounds. Entry: 4; Yield 100%.

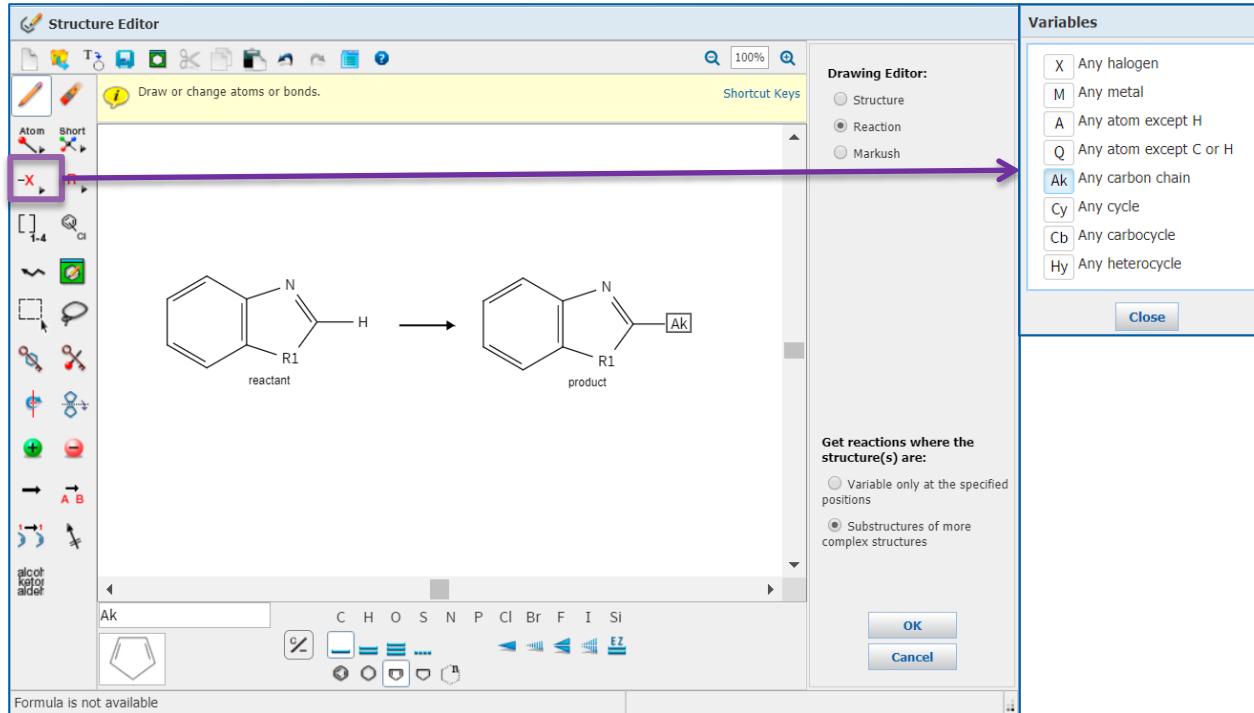
不用阅读全文，直接获得包含实验过程的反应记录

亚结构反应检索

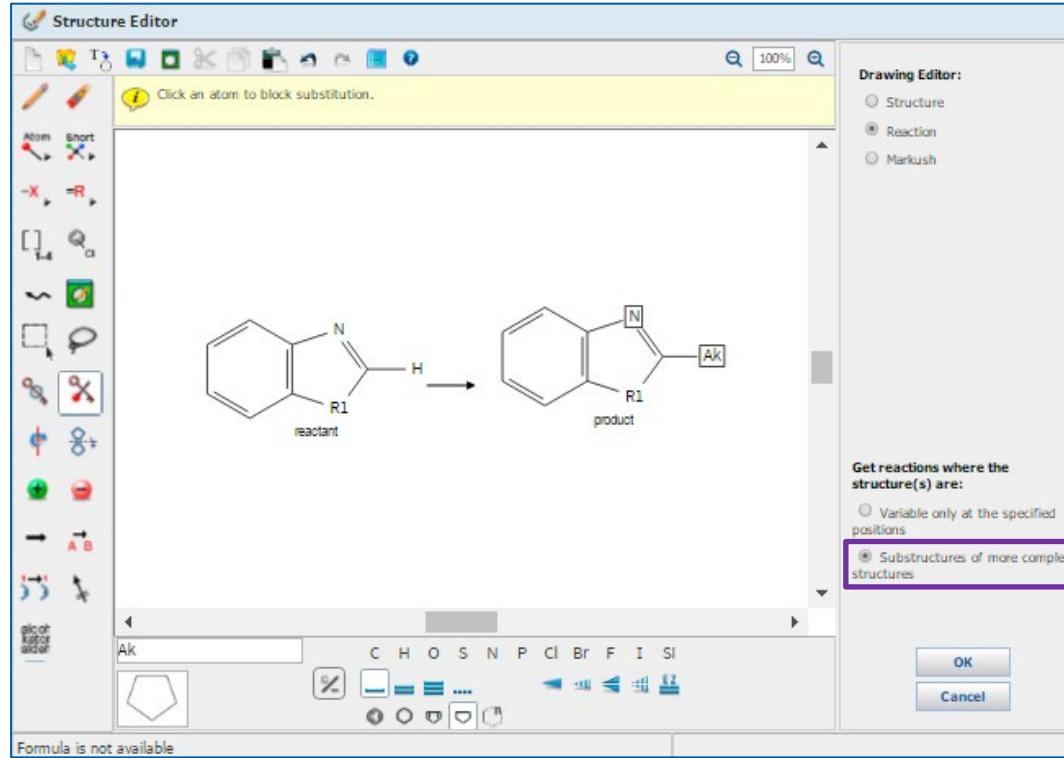
通过C-H活化对苯并噻唑或者恶唑进行烷基化



亚结构反应检索



亚结构反应检索



通过后处理工具筛选反应——Analyze

通过催化剂筛选反应

Analyze Refine

Analyze by: Catalyst

Group by: No Grouping Sort by: Accession Number

CuI 28
312696-09-6 17
AgNO₃ 17
(MeOCH₂CH₂)₂O 16
NaI 15
1905414-33-6 14
CoBr₂ 11
Me₃SiCH₂MgCl 10
Ph₂P(CH₂)₃PPh₂ 10
658062-48-7 9

1. View Reaction Detail Similar Reactions

Single Step Hover over any structure for more options.

Overview
Steps/Stages

1.1 R:LiO-Bu-t; C:1905414-33-6, S:Dioxane, 16 h, 100°C
1.2 S:H₂O, rt
1.3 R:HCl, S:H₂O, neutralized

Notes

catalyst prepared and used, screw cap tube used,
Reactants: 2, Reagents: 2, Catalysts: 1, Solvents:
one step: 3

References

通过后处理工具筛选反应--Analyze

筛选出有实验步骤的反应

Reaction Structure substructure with limiters > reactions (282)

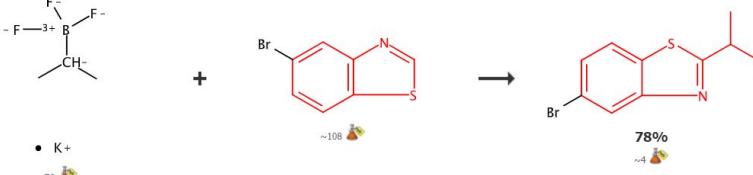
REACTIONS ? Get References Tools ? Send to SciPlanner

Analyze Refine Group by: No Grouping Sort by: Accession Number ↴ 0 of 282 Reactions Selected Display Options Page: 1 of 6

Analyze by: MethodsNow Available 184 MethodsNow Not Available 98 Show More

1. View Reaction Detail Link Similar Reactions

Single Step Hover over any structure for more options.



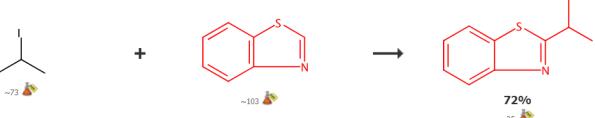
2. View Reaction Detail Link Similar Reactions

Single Step Hover over any structure for more options.

通过后处理工具筛选反应--Analyze

39. [View Reaction Detail](#) [Link](#) [Similar Reactions](#)

Single Step Hover over any structure for more options.



~73 

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72% 

~103 

MethodsNow

C-H Functionalization of Heteroarenes Using Unactivated Alkyl Halides through Visible-Light Photoredox Catalysis under Basic Conditions
By Bissonnette, Noah B.; Boyd, Michael J.; May, Gregory D.; Groulx, Simon; Nuhant, Philippe
From Journal of Organic Chemistry, 83(18), 10933-10940; 2018
Published by American Chemical Society



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▶ Overview

▼ METHODSNow™

Procedure

- Add one equivalent of indole, 3 equivalents of benzothiophene to a Chemglass vial.
- Purge the vial for 5 minutes under vacuum.

[View more...](#)

Available Experimental Data

¹H NMR, ¹³C NMR, HRMS

[View with MethodsNow](#)

Products	2-(1-Methylthio)benzothiazole, 72%, CAS RN: 17626-86-7
Reactants	Isopropyl iodide, CAS RN: 75-30-9 Benzothiophene, CAS RN: 95-16-9
Reagents	2,2,6,6-Tetramethylpiperidine, CAS RN: 768-66-1
Catalysts	Iridium(1+), [4,4'-bis(1,1-dimethyl ethyl)-2,2'-bipyridine- κ^N,κ^N][bis[2-(2-pyridinyl- κ^N)phen-331], hexafluorophosphate(1-1:1), CAS RN: 676525-77-2

Solvents

Procedure

- Add one equivalent of indole, 3 equivalents of benzothiophene and 2.5 mol % of [Ir(ppy)₃(dtbbpy)]PF₆ to a vial (1 dram, ~3.7 mL), 15 × 45 mm, 13–425 thread with red pressure relief cap Chemglass vial.
- Purge the vial for 5 minutes under vacuum.
- Fill the vial with nitrogen gas.
- Add 3 equivalents of Et₃N (0.5 mL), 3 equivalents of Et₃N and 1 equivalent of indole to the reaction mixture under N₂ atmosphere.
- Remove the nitrogen line.
- Add 3 equivalents of benzothiophene to the reaction mixture.
- Irradiate the vial under blue LED light.
- Stir the reaction mixture overnight at room temperature at 1000 rpm with a small cooling fan (approximately 16 hours).
- After the completion of the reaction, add 0.25 equivalent of 1,4-dinitrobenzene to the vial.
- Evaporate the volatiles using a V10 Biotage system.
- Load the crude mixture onto a 40 g gold ISCO column using hexane/ethyl acetate (100:0 to 0:100) as eluents.

Transformation

¹H NMR

(400 MHz, chloroform-d) δ 7.98 (dd, *J* = 8.2, 1.2 Hz, 1H), 7.85 (dd, *J* = 8.0, 1.3 Hz, 1H), 7.45 (ddd, *J* = 8.3, 7.2, 1.3 Hz, 1H), 7.34 (ddd, *J* = 8.3, 7.3, 1.2 Hz, 1H), 3.43 (hept, *J* = 6.9 Hz, 1H), 1.48 (*d*, *J* = 6.9 Hz, 6H).

¹³C NMR

(101 MHz, chloroform-d) δ 178.7, 153.3, 134.8, 126.0, 124.7, 122.7, 121.7, 34.2, 23.1 (2C).

HRMS

(ESI), m/z: calc'd for C₁₀H₁₂NS[M + H]⁺: 178.0690, found: 178.0687.

CAS Method Number

3-085-CAS-19169886

提纲

- 美国化学文摘社简介
- SciFinder简介及检索方式
 - 文献检索 (PatentPak及MethodsNow-ANA的应用)
 - 物质检索
 - Markush检索
 - 反应检索 (MethodsNow-SYN的应用)
 - SciPlanner
- SciFinder常见问题及解决

SciPlanner使用简介

1. 勾选想要的反应

3 Steps Hover over any structure for more options.

Send to SciPlanner

2. 点击Send to SciPlanner

3. 进入SciPlanner 新建文件

4. 将刚推送过来的反应拖至编辑面板

The screenshot illustrates the process of transferring a reaction from a web-based platform to the SciPlanner software. Step 1 shows a reaction setup with two reagents: 2-chloro-4-nitropyridine and 4-methoxybenzenethiol. Step 2 shows the 'Send to SciPlanner' button being clicked. Step 3 shows the SciPlanner application window with a new workspace. Step 4 shows the reaction being dragged from the clipboard into the SciPlanner workspace.

SciPlanner使用简介

The screenshot shows the SciPlanner software interface. At the top, a context menu is open over a chemical structure of 2-nitro-4-chlorobiphenyl. The menu items include:

- CAS Registry Number: 13091-23-1
- View Substance Detail
- Explore by Structure
- Synthesize this... (highlighted with a purple box)
- Get Reactions where Substance is a ...
- Get Commercial Sources
- Get Regulatory Information
- Get References
- Export as Image
- Export as molfile

Below the menu, a synthesis route is shown:

1. 2-nitro-4-chlorobiphenyl reacts with $\text{Cl} \text{C}_2\text{H}_3\text{CO}_2$ to form 2-nitro-4-chlorobiphenyl-4-carboxylic acid.

2. 2-nitro-4-chlorobiphenyl-4-carboxylic acid reacts with $\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2\text{OH}$ to form 2-nitro-4-chlorobiphenyl-4-phenylmethanol.

3. 2-nitro-4-chlorobiphenyl-4-phenylmethanol reacts with NaBH_4 to form 2-nitro-4-chlorobiphenyl.

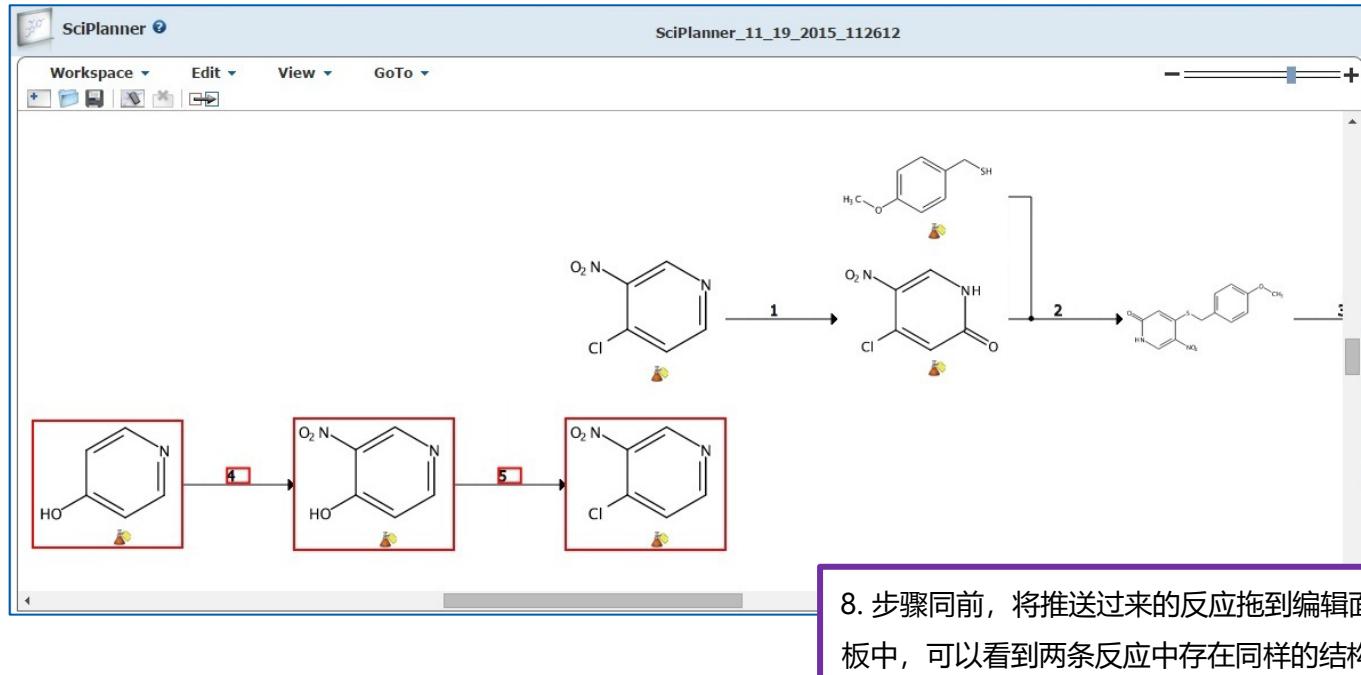
At the bottom left, a reaction search results window is shown for "1. View Reaction Detail". It lists 1 of 34 reactions selected, with the first reaction being:

2 Steps Hover over any structure for more options.

Reaction 1: 4-hydroxypyridine reacts with $\text{O}_2\text{N}-\text{C}_6\text{H}_3\text{Cl}-\text{C}_6\text{H}_5$ to form 2-nitro-4-chloropyridine.

On the right side of the interface, there are buttons for "Send selected records to SciPlanner." and "Send to SciPlanner". A purple box highlights the "Send to SciPlanner" button, with the text "7. 继续推送到SciPlanner" (Continue pushing to SciPlanner) next to it.

SciPlanner使用简介



SciPlanner使用简介

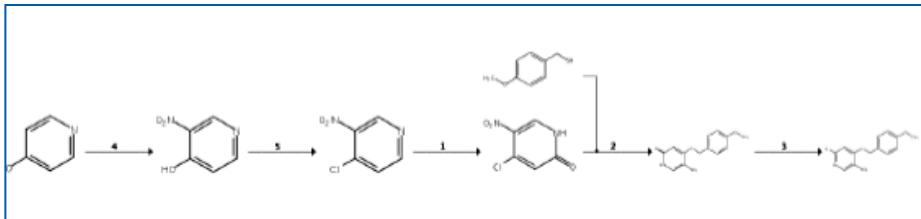
The screenshot shows the SciPlanner software interface. On the left, a workspace menu is open, with the 'Export' option highlighted. A purple callout bubble points to this menu with the text: "10. 点击 Workspace, 选择 Export 导出结果". In the center, a reaction scheme is displayed with numbered arrows (4, 5, 1, 2) indicating steps. A purple callout bubble points to the reaction scheme with the text: "9. 用鼠标将两个同样的结构拖至重叠, 两条反应合并". To the right, an 'Export' dialog box is open, showing options for output format (Offline Review: Portable Document Format (*.pdf), Citations (*.ris), Image (*.png)), saving locally (SciPlanner eXchange (*.plx)), and inclusion details (SciPlanner Image, Reaction Details, Substance Details, Reference Details). A purple callout bubble points to the dialog box with the text: "11. 选择适当的输出格式, 输出结果". At the bottom right of the dialog box are 'Export' and 'Cancel' buttons.

10. 点击 Workspace, 选择 Export 导出结果

9. 用鼠标将两个同样的结构拖至重叠, 两条反应合并

11. 选择适当的输出格式, 输出结果

SciPlanner导出结果



Reaction	Stages	Notes	Yield
5	1.1 R:POCl ₃ , S:PhMe, 0°C → rt; 16 h, rt → 110°C 1.2 R:K ₂ CO ₃ , S:H ₂ O, cooled, pH 10	Reactants: 1, Reagents: 2, Solvents: 2, Steps: 1, Stages: 2 Transformation: 1. Formation of Alkyl Halides from Alcohols	90%
References			
High color rendering index and color stable hybrid white efficient OLEDs with a double emitting layer structure using a single phosphorescence dopant of heteroleptic platinum complexes By Polcek, Anurach et al From Journal of Materials Chemistry C: Materials for Optical and Electronic Devices, 2(48), 10343-10356; 2014			

Substance Information		
	C ₁₂ H ₁₁ N ₂ O ₂ S 2-(1H-Pyridine-4-((4-methoxyphenyl)methyl)thio)-5-nitro-	Related Info: ~2 References Reactions
	C ₁₂ H ₁₁ N ₂ O ₂ S Pyridine-2-chloro-4-((4-methoxyphenyl)methyl)thio)-5-nitro-	Related Info: ~2 References Reactions
	C ₈ H ₇ ClN ₂ O ₂ Pyridine-3-chloro-4-nitro-	Related Info: ~201 References Reactions ~190 Commercial Sources Regulatory Information
	C ₈ H ₇ N ₂ O ₂ 4-Pyridin-3-nitro-	Related Info: ~113 References Reactions ~191 Commercial Sources Regulatory Information
	C ₈ H ₉ O Benzene-methanethiol, 4-methoxy-	Related Info: ~749 References Reactions ~71 Commercial Sources Regulatory Information
	C ₈ H ₉ O 4-Pyridinol	Related Info: ~1351 References Reactions ~180 Commercial Sources Regulatory Information
	C ₈ H ₇ ClN ₂ O ₂ 2-(1H-Pyridine-4-chloro-5-nitro-	Related Info: ~22 References Reactions ~136 Commercial Sources

提纲

- 美国化学文摘社简介
- SciFinder简介及检索方式
 - 文献检索
 - 物质检索
 - Markush检索
 - 反应检索
 - SciPlanner
- SciFinder常见问题及解决

SciFinder浏览器选择建议

- Windows 7以上用户建议升级IE到10以上，不支持IE7、IE8
- Chrome和FireFox浏览器在所有系统上的表现都优于IE浏览器
- 不建议使用360浏览器检索SciFinder，会被自动拦截相关功能或插件

如何获取SciFinder账号

The registration form consists of three main sections:

- Contact Information:** Fields for First Name, Last Name, Email, Confirm Email, Phone Number, Fax Number, Area of Research (dropdown), and Job Title (dropdown).
- Username and Password:** Fields for Username, Password, and Re-enter Password. A "Forgot" link is next to the Password field.
- Security Information:** Fields for Security Question (dropdown) and Answer. A "Why?" link is next to the Answer field.

At the bottom are "Register>>" and "Clear All" buttons.

请注意：

- 必须输入真实姓名和学校邮箱。
- 用户名必须是唯一的，且包含 5-15 个字符。它可以只包含字母或字母组合、数字和/或以下特殊字符：

- (破折号)
- _ (下划线)
- . (句点)
- @ (表示“at”的符号)

- 密码必须包含 7-15 个字符，并且至少包含三种以下字符：

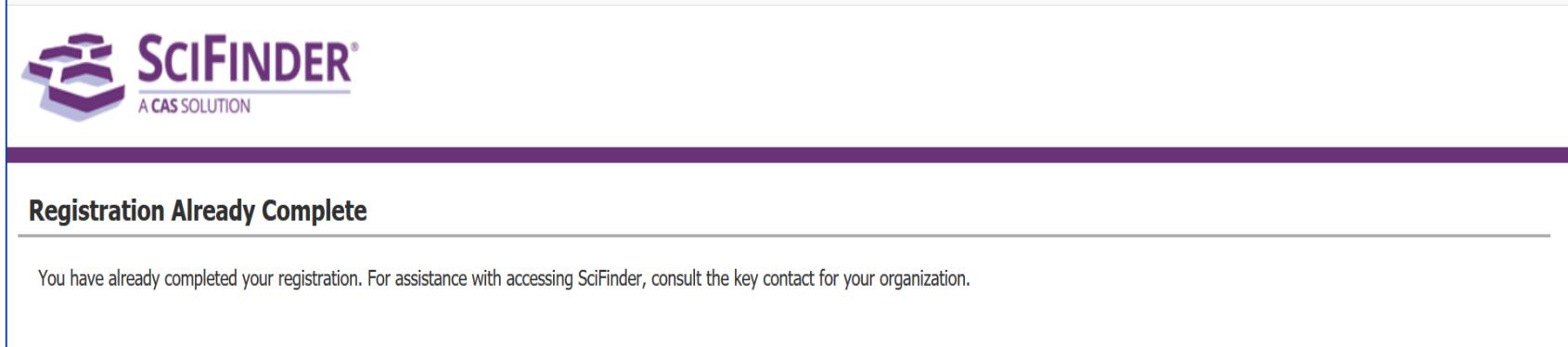
- 字母
- 混合的大小写字母
- 数字
- 非字母数字的字符（例如 @、#、%、&、*）

例：abc@123

- 从下拉列表中选择一个密码提示问题并给出答案。
单击 Register (注册)。

- 登录学校图书馆网站找到SciFinder数据库说明页，按照提示进行注册

如何获取SciFinder账号



The image shows a screenshot of a SciFinder registration confirmation page. At the top left is the SciFinder logo with the text "A CAS SOLUTION". Below it, a purple bar contains the text "Registration Already Complete". Underneath, a message reads: "You have already completed your registration. For assistance with accessing SciFinder, consult the key contact for your organization."

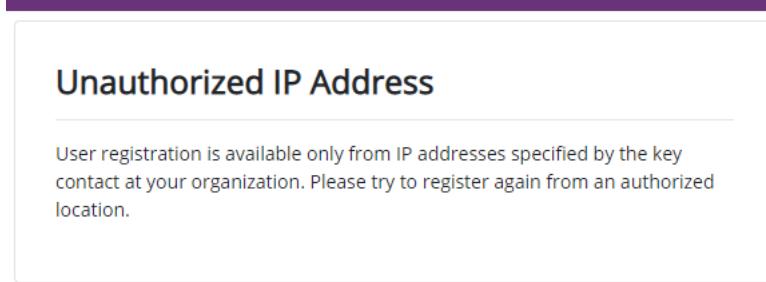
点击激活链接后注册成功。

之后直接点击<https://SciFinder.cas.org>即可访问SciFinder数据库。

SciFinder使用注意事项

- 一人注册一个帐号，在校内完成注册
- 实名注册，请提供真实姓名信息（中文名用汉语拼音全拼）
- 严禁过量下载（以电子形式存储不超过5,000条记录）
- 严禁账号分享
- 严禁将账号用于非学术研究

SciFinder常见问题



- 检查注册链接是否正确
- 确认连入校园网，且不是通过VPN连接
- 如果链接正确，且在校园网内，请联系图书馆或china@acs-i.org

SciFinder常见问题



- 确认账号密码是否正确
- 如果账号密码正确，请填好问题报告后联系图书馆或china@acs-i.org

更多培训资料请访问

<https://www.cas.org/support/training/scifinder>

谢 谢 !



欢迎联系：

美国艾赛思国际有限公司北京代表处
ACS International Ltd Beijing Rep Office
china@acs-i.org
www.cas.org