余敏

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美国化学文摘社北京代表处

释放无限可能: 创新科学工具SciFinderⁿ 及CAS定制服务



大纲

- 美国化学文摘社(CAS)内容特色及定制服务
- 为什么需要SciFinderⁿ









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)
- 密切追踪、标引和提炼着全球化学相关的文献(包括专利)
- 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









50
THOUSAND
scientific journals
and documents

PATENT OFFICES

worldwide

167
MILLION
substances

Active Pharma Ingredient Cosmetic Formulations Infrared Data Analytical Methods Protocols Global Regulations Spectral Data Structures Reactions Pharmacology / Toxicology Processes Structure activity-relationship **Properties** IP Claims **Ingredient Functions DNA / RNA Sequences** Markush Diseases **UVCB Substances** NMR Data **Formulations** Cell Lines / Types **Polymer Properties** Mass Spec Data Biomolecule Isolation Targets **Agriculture Formulations**

CAS拥有互联大数据内容,助力跨学科创新

Organometallics / Inorganics



BioAssays

Protocols

- 生物化学:
 - 农化产品管控信息、生化遗传学、发酵、免疫化学、药理学
- 有机化学各领域:
 - 氨基酸,生物分子、碳水化合物、有机金属化合物、类固醇
- 大分子化学各领域:
 - 纤维素、木质素、造纸;涂料、墨水
 - 染料、有机颜料;合成橡胶纺织品、纤维
- 应用化学各领域:
 - 大气污染、陶瓷、精油、化妆品、化石燃料、黑色金属、合金
- 物理、无机、分析化学各领域:
 - 表面化学、催化剂、相平衡、核现象、电化学

广泛意义的化学, 不仅包含 传统化学, 几乎包含了所有 与化学相关的学科。



数据量和更新频率全球领先

- 化学物质数量全球领先。目前收录的物质数量已经超过1.67亿个,是进行新化合物确认的唯一可用资源
- 由CAS创建的CAS登记号是化学物质的黄金标准;是对物质进行确认的唯一身份识别号;是在进行化学品进出口交易时,必须向相关国家管控机构提供的身份识别号;是在申报课题项目时,需向评议组提供的身份识别号
- CAS几乎收录了从高分子聚合物到纳米颗粒的所有类别的物质,包括有机物、无机物、聚合物、合金、矿物质、配合物、混合物、生物序列等
- CAS不但收录专利中报道的确定结构的物质,还收录专利中的通式结构(马库什结构),帮助用户在使用CAS的数据后能够最大程度的避免专利法律风险



- 化学反应数量全球领先,目前收录的化学反应数量超过1.29亿条,是确认新的化学反应、 工艺和方法时必不可缺的资源
- 近千名科学家每天阅读来自全球的科技文献,并根据CAS制定的规则和标准、从信息专家和科学家的角度对原文中重要的信息进行改写和标引,从而节省CAS的用户花在阅读、理解、总结科技原文文献所需的时间,将更多的时间投入到其他的工作中

CAS科学家对数据的解读,有助于节省用户检索、分析、 阅读和理解信息所花费的时间





ZOOM

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1000页! 篇幅太长, 难以短时间内理解其中的信息, 是否太难?

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau

(43) International Publication Date 15 June 2017 (15.06.2017) WIPO | PCT





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Row, San Diego, California 92121 (US). GHOSH, Brahmananda; 1400 McKean Road, Spring House, Pennsylvania 19477 (US). HAO, Baoyu; c/o Hutchinson Medipharma Limited, Building 4, 720 Cailun Road, Zhangjian Hi-Tech Park, Shanghai 201203 (CN). KREUTTER, Kevin; c/o Janssen Research & Development LLC, 1400 McKean Road, Spring House, Pennsylvania 19477 (US). LI, Gang; c/o Hutchinson Medipharma Limited, Building 4, 720 Cailun Road, Zhangjian Hi-Tech Park, Shanghai 201203 (CN). TICHENOR, Mark S.; 3210 Merryfield Row, San Diego, California 92121 (US). VENABLE, Jennifer D.; 3210 Merryfield Row, San Diego, California 92121 (US). WEI, Janmei; 3210 Merryfield Row, San Diego, California



Table 2

Ex#	Compound Name 近千个化合物,要确定其结构式和CAS号,是否太难?	BTK_I_binding pIC50
1	N-((3R,5R)-1-Acryloyl-5-fluoropiperidin-3-yl)-5-(2-methyl-4-phenoxyphenyl)-4-oxo-4,5-dihydro-3H-1-thia-3,5,8-triazaacenaphthylene-2-carboxamide;	7.7
2	N-((3R,5S)-1-Acryloyl-5-hydroxypiperidin-3-yl)-5-(*S)-(2-methyl-4-phenoxyphenyl)-4-oxo-4,5-dihydro-3H-1-thia-3,5,8-triazaacenaphthylene-2-carboxamide;	8.2

97	' 4	(R)-N-(1-Acryloylpyrrolidin-3-yl)-5-(2-methyl-6-(pyridazin-3-yloxy)pyridin-3-yl)-4-oxo-4,5-dihydro-3H-1-thia-3,5,8-triazaacenaphthylene-2-carboxamide;	5.6
97:	15	(R)-N-(1-Acryloylpiperidin-3-yl)-5-(2-methyl-6-(pyridazin-3-yloxy)pyridin-3-yl)-4-oxo-4,5-dihydro-3H-1-thia-3,5,8-triazaacenaphthylene-2-carboxamide;	5.0

CN 106232118 A

利 要 求 书

1.式I的化合物或其药学上可接受的盐用于治疗哺乳动物的D1-介导的(或D1-相关 障碍的用途:

结构式复杂, 难以根据定义 绘制其结构,是否太难?

 L^1 为0、S、 NR^N 、C(=0)、CH(OH)或CH(OCH_3):

Q¹为含N的15元至10元杂芳基、含N的4元至12元杂环烷基或苯基,它们各自任选地被一个 R⁹取代且进一步任选地被1、2、3或4个R¹⁰取代:

X¹为0、S、NH、N(C₁₋₄烷基)、N(环丙基)或N(-CH₂-环丙基);

X²为N或C-T²:

 X^3 为N或C- T^3 :

前提条件是当 X^1 为0或S时,则 X^2 和 X^3 中的至少一个不为N.

X⁴为N或C-T⁴:

 T^1 为H、-OH、卤素、-CN或仟选被取代的 C_{1-2} 烷基:

 T^2 、 T^3 和 T^4 各自独立地选自由下列选项组成的组:H、-OH、卤素、-CN、任选被取代的 C_{1-4} 烷 基、任选被取代的C3-4环烷基、任选被取代的环丙基甲基以及任选被取代的C1-4烷氧基:

R^N为H、C1-4烷基、C3-4环烷基或-C1-2烷基-C3-4环烷基,

R¹和R²各自独立地选自由下列选项组成的组:H、卤素、-CN、C₁-6烷基、C₁-6卤代烷基、C₁-6 烷氧基、C1-6卤代烷氧基以及C3-6环烷基,其中所述的C1-6烷基和C3-6环烷基各自任选地被各 自独立地选自下列选项的1、2、3、4或5个取代基取代:卤代、-OH、-CN、C1-4烷基、C1-4卤代烷 基、C1-4烷氧基以及C1-4卤代烷氧基:

R³和R⁴各自独立地选自由下列选项组成的组:H、卤素、-OH、-NH₂、-NH(CH₃)、-N(CH₃)。、-NO₂、-CN、-SF₅、C₁₋₆烷基、C₁₋₆卤代烷基、C₁₋₆卤代烷氧基、C₂₋₆烧基、C₂₋₆烧基、C₃₋₇环烷基、4元至 10元杂环烷基、 $-N(R^5)(R^6)$ 、 $-N(R^7)(C(=0)R^8)$ 、 $-C(=0)-N(R^5)(R^6)$ 、 $-C(=0)-R^8$ 、 $-C(=0)-R^8$ OR^8 、 $-N(R^7)(S(=0)_2R^8)$ 、 $-S(=0)_2-N(R^5)(R^6)$ 、 $-SR^8$ 以及 $-OR^8$,其中所述的 $C_{1-6</sub>烷基、<math>C_{3-7}$ 环烷 基及杂环烷基各自任选地被各自独立地选自由下列选项组成的组的1、2或3个取代基取代: 卤素、-CN、-OH、C1-4烷基、C1-4烷氧基、C1-4卤代烷基、C1-4卤代烷氧基、C3-6环烷基、-N(R5) (R^6) , $-N(R^7)(C(=0)R^8)$, $-C(=0)-0R^8$, -C(=0)H, $-C(=0)R^8$, $-C(=0)N(R^5)(R^6)$, $-N(R^7)(S^8)$

WO 2006/016684

PCT/JP2005/014867

1

DESCRIPTION

PDF原文中的标题和摘要

METHOD FOR SYNTHESIS OF AROMATIC AMINE

(57) Abstract: One embodiment of the present invention provides a method for synthesis of substituted secondary amine by the reaction of aniline with aryl halide by using a Pd catalyst including (t-Bu)₃P as a ligand.

Process for synthesis of substituted secondary amines via condensation of aniline with aryl halides with a palladium catalyst and (t-Bu)3P as a ligand as an electroluminescence source for display devices

By: Nakashima, Harue; Kawakami, Sachiko

Assignee: Semiconductor Energy Laboratory Co., Ltd., Japan

CAS科学家改写的标题和摘要

A process for the synthesis of secondary amines is presented via condensation of aniline with an aryl halide using palladium as a catalyst and (t-Bu)₃P as a ligand in the key step. Thus, N-(4-diphenylamino)phenylaniline is synthesized in 42% yield by condensation of N,N-diphenyl-N-(4-bromophenyl)amine with aniline. The process avoids protecting groups though the use of a palladium catalyst and (t-Bu)₃P as a ligand. N-(4-diphenylamino)phenylaniline can be used as an electroluminescence source for display devices including a light-emitting diodes, flat panel displays, liq. crystal display devices (no data).

CAS的科学家对专利进行必要改写,使其更容易被理解和获取



Indexing

Heterocyclic Compounds (More Than One Hetero Atom) (Section28-16)

Section cross-reference(s): 1, 63

Concepts

Antirheumatic agents Homo sapiens Antitumor agents Human

Pharmaceutical excipients

prepn. of oxodihydrothiatriazaacenaphthylenecarboxamides as inhibitors of Bruton's tyrosine kinase

CAS科学家标引的信息揭

Neoplasm

Rheumatoid arthritis

示了本专利的发明主题

treatment of; prepn. of oxodihydrothiatriazaacenaphthylenecarboxamides as inhibitors of Bruton's tyrosine kinase

2101210-72-2P 2101210-73-3P 2101210-82-4P 2101211-31-6P 2101211-41-8P 2101211-62-3P 2101212-16-0P 2101212-26-2P 2101212-84-2P 2101214-41-7P 2101216-00-4P 2101216-02-6P 2101216-63-9P 2101216-66-2P 2101216-70-8P 2101216-72-0P 2101216-74-2P

CAS科学家标引的物质信息。此两组物质都为被制备的物质,有何异同?

Page 211 in PATENTPAK Page 211 in PATENTPAK Page 217 in PATENTPAK Page 257 in PATENTPAK Page 265 in PATENTPAK Page 280 in PATENTPAK Page 316 in PATENTPAK Page 323 in PATENTPAK Page 365 in PATENTPAK Page 493 in PATENTPAK Page 639 in PATENTPAK Page 640 in PATENTPAK Page 705 in PATENTPAK Page 706 in PATENTPAK Page 710 in PATENTPAK Page 714 in PATENTPAK Page 716 in PATENTPAK

prepn. of oxodihydrothiatriazaacenaphthylenecarboxamides as inhibitors of Bruton's tyrosine kinase

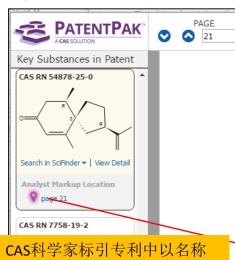
Pharmacological activity; Physical, engineering or chemical process; Synthetic preparation; Therapeutic use; Biological study; Preparation; Process; Uses

Page 364 in PATENTPAK Page 370 in PATENTPAK Page 598 in PATENTPAK

prepn. of oxodihydrothiatriazaacenaphthylenecarboxamides as inhibitors of Bruton's tyrosine kinase

Pharmacological activity; Physical, engineering or chemical process; Reactant; Synthetic preparation; Therapeutic use; Biological study; Preparation; Process; Uses; Reactant or reagent





CAS科学家标引专利中以名称 表示的物质,并提供物质的结 构式、CAS号及在专利中的位 置信息

Analyst Markup Location
page 21

medium with CALI-5 or ALX7-95 containing YEp-HPS-ura. This culture was grown until early stationary phase (24-48 hr). One mL of this culture was inoculated into 500 mL of SDE-ura medium and grown for 24 hr. A 400-mL aliquot (5% inoculum) was used to inoculate the 8 L of medium.

[0188] The fermentor was maintained at 26° C. The air flow was 4.5 L/min and the dO₂ was maintained above 30% by adjusting the rpm. Furthermore, the pH was maintained at 4.5 using acetic acid and NaOH.

[0189] Once the glucose concentration was below 1 g/L, a feeding regimen was initiated such that the glucose in the fermentor was kept between 0 and 1 g/L. The glucose feed was made by mixing 1400 mL of 60% glucose and 328 mL of 12.5% yeast extract.

[0190] After 5 days, the air and agitation were turned off, and the oil was allowed to rise to the top of the tank and decanted.

Example 3

Preparation of 2-Isopres 9-6,10-dimethyl-spiro[4. 5]dec-6-en-8-one (the "(-)-solavetivone") (5)

[0191] 3,5-Dimethylpyrazole (47 g, 0.49 mol) was dissolved in a mixture of CH₂Cl₂ (650 mL) and t-but alcohol (31 mL). The solution was then cooled to ±78° C. Chromyl chloride (CrO₂Cl₂) (13.3 mL) was added over 15 min and stirred for another 15 min before it was allowed to warm to room temperature. Premnaspirodiene (6.69 g, 32.7 mmol) was dissolved in CH₂Cl₂ (650 mL) and added rapidly to the reaction. The dark red solution was stirred for 48 hours. The

Example 5

Preparation of 2-Isopropy6, 10-dimethyl-spiro[4.5] deca-2,6-dien-8-one (3) & 2-Isopropyl-6, 10-dimethyl-spiro[4.5]deca-1,6-dien-8-one (4).

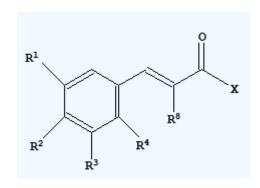
[0193] To a solution of (-)-solavetivone (5) (100 mg, 0.46 mmol) dissolved in ethanol (2 mL) was added Amberlysts [R-15 (150 mg). The suspension was then heated at 105° C. in a sealed reaction flask for 96 hours. The suspension was then filtered through Celite and evaporated under vacuum. The residue was purified on a silica gel column (hexane:ether, 85:15) to afford the mixture as a colorless oil (67 mg, 67%). ESIMS m/z 219 (M+H), 78.7% at 14.71 min; 219 (M+H), 17.1% at 14.89 min.

Example 6

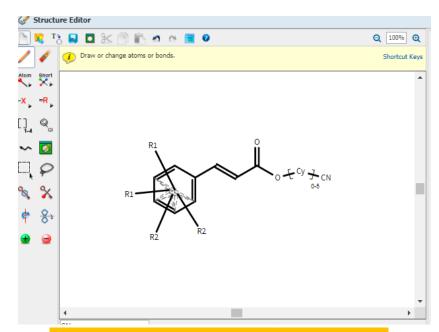
Oxidation of (+)-Valencene to (+)-Nootkatone

[0194] In order to test various reaction conditions for the oxidation of premnaspirodiene to solavetivone, reactions were carried out on commercially available valencene, a compound that is chemically similar to premnaspirodiene and would be expected to oxidized under similar reaction conditions. Reactions were carried out using 250 mg of starting material in a single reaction, using combinations of redium chlorite and either 1 butylhydroperoxide (t-BuOOH) or N-hydroxynhthalimide (NHPI) as described (S. M. Silvestre & I.





R1-R4相同或不同,分别为H、F、CI、Br R1-R4至少有两个不能同为氢 X=O-[Ar]₀₋₅-CN R8为任意原子



CAS的解决方案具有强大的结构绘制功能,能 够绘制较复杂的结构



LIMITLESS POSSIBILITIES 无限可能

定制服务应对挑战



CONTENT SERVICES 内容服务

- 定制数据集合 Content licensing
- 数据结构Data structure
- 数据平台 Data platforms



TECHNOLOGY SERVICES

技术服务

- 数据架构 Data architecture
- 平台整合 Platform integration
- 检索引擎 Search engines
- 定制解决方案 Custom solutions



KNOWLEDGE SERVICES

知识服务

- 外包IP检索 Outsourced IP search
- 数据分析 Analytics
- 机会分析 Opportunity exploration
- 技术评估
 Technical Assessment



PROFESSIONAL SERVICES

专业服务

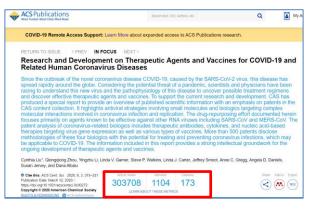
- 人员派遣
 Talent augmentation
- 咨询 Consulting
- Technical writing 科技写作
- Scientific analysis 科研分析



美国化学文摘社(CAS)为抗击新冠病毒发布的分析报告



COVID-19治疗药物及疫苗研发数据分析报告 ACS Cent. Sci. 2020, 6, 3, 315-331 发布日期: March 12, 2020 https://doi.org/10.1021/acscentsci.0c00272

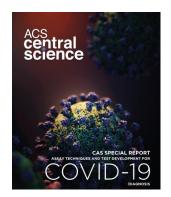


target candidate	full name	role during viral infection	drug candidate
3CLpro	coronavirus main protease 3CLpro	a protease for the proteolysis of viral polyprotein into functional units	lopinavir ^{19,30}
PLpro	papain-like protease PLpro	a protease for the proteolysis of viral polyprotein into functional units	lopinavir ^{19,30}
RdRp	RNA-dependent RNA polymerase	an RNA-dependent RNA polymerase for replicating viral genome	remdesivir, 19,29,32 ribavirin 16,29,31
S protein	viral spike glycoprotein	a viral surface protein for binding to host cell receptor ACE2	Arbidol ^{20,22,33} cr
TMPRSS2	transmembrane protease, serine 2	a host cell-produced protease that primes S protein to facilitate its binding to ACE2	camostat mesylate ¹¹
ACE2	angiotensin-converting enzyme 2	a viral receptor protein on the host cells which binds to viral S protein	Arbidol ^{20,22,33st}
AT2	angiotensin AT2 receptor	an important effector involved in the regulation of blood pressure and volume of the cardiovascular system	L-163491 ²⁸

patent number	antigen of SARS antibody	patent title	organization	priority date
EP2112164	lipid attachment signals or GPI	Antiviral peptides linked to a lipid attachment signals or GPI against enveloped virus such as HIV, avian flu, SARS or Ebola virus	Institute Pasteur of Shanghai	20080229
WO2009128963	spike protein	Cross-neutralizing human monoclonal antibodies to SARS-CoV and methods of use thereof	Institute for Research In Biomedicine	20080117
WO2009128963	spike protein	Cross-neutralizing human monoclonal antibodies to spike protein of SARS coronavirus and methods of use thereof	Humab, LLC	20080117
WO2008035894	viral infection	Preparation of antiviral antibody 3D8 fragments and their use in treatment of viral infection	Sung Kyun Kwan University; Ajou University; Invitroplant Co., Ltd.	20060919
WO2008060331	spike protein	Antibodies to SARS coronavirus	Amgen Inc.	20060519
WO2007044695	spike protein	Neutralizing monoclonal anti-spike protein antibodies for diagnosis and treatment of SARS-coronavirus-associated disease and screening of vaccine or anti-SARS agent	Dana-Farber Cancer Institute	20051007
CN1911963	RBD of S protein	Method for preparing neutralizing monoclonal antibody against severe acute respiratory syndrome coronavirus and its application	Chinese Academy of Sciences	20050810
CN1903878	spike protein	Fab fragment of human antibody IgG against SARS coronavirus	Fudan University	20050726
WO2006095180	S2 protein	Human monoclonal antibodies against SARS-associated coronavirus and treatment of patients with SARS	Ultra Biotech Ltd.; University of California	20050310
WO2006086561	spike protein	Neutralizing monoclonal antibodies against severe acute respiratory syndrome-associated coronavirus	New York Blood Center, Inc.	20050208



美国化学文摘社(CAS)为抗击新冠病毒发布的分析报告



COVID-19诊断检测方法与技术开发

ACS Cent. Sci. 2020, 6, 5, 591-605

发布日期: April 30, 2020

https://doi.org/10.1021/acscentsci.0c00501

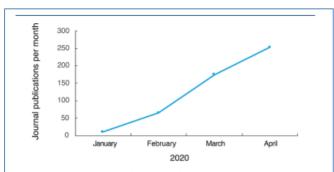


Figure 7. Monthly trend of journal publications related to COVID-19 diagnostics in 2020.

ublication	title	journal	nucleic acids	proteins
2020	Nanopore Target Sequencing for Accurate and Comprehensive Detection of SARS-CoV-2 and Other Respiratory Viruses	medRxiv	40 primers	
2020	A Single and Two-Stage, Closed-Tube, Molecular Test for the 2019 Novel Coronavirus (COVID-19) at Home, Clinic, and Points of Entry	ChemRxiv	6 COVID-19 LAMP primers	
2020	Transmission and Clinical Characteristics of Coronavirus Disease 2019 in 104-Outside-Wuhan Patients, China	medRxiv	6 primers and probes	
2020	A Pneumonia Outbreak Associated with a New Coronavirus of Probable Bat Origin	Nature	4	50
2020	A New Coronavirus Associated with Human Respiratory Disease in China	Nature	1	10
2020	A Sequence Homology and Bioinformatic Approach Can Predict Candidate Targets for Immune Responses to SARS-CoV-2	Cell Host & Microbe		51
2020	Comparative Analysis of Primer-Probe Sets for the Laboratory Confirmation of SARS-CoV-2	bioRxiv	20 primers, 10 probes	
2020	Spike Protein Binding Prediction with Neutralizing Antibodies of SARS-CoV-2	bioRxiv		3
2020	SARS-CoV-2 Proteome Microarray for Mapping COVID-19 Antibody Interactions at Amino Acid Resolution	bioRxiv		11
2020	Evaluation of Recombinant Nucleocapsid and Spike Proteins for Serological Diagnosis of Novel Coronavirus Disease 2019 (COVID-19)	medRxiv	12 primers	
2020	RBD Mutations from Circulating SARS-CoV-2 Strains Enhance the Structure Stability and Infectivity of the Spike Protein	bioRxiv		8
2020	Teicoplanin Potently Blocks the Cell Entry of 2019-nCoV	bioRxiv	14	134
2020	Differential Antibody Recognition by SARS-CoV-2 and SARS-CoV Spike Protein Receptor Binding Domains: Mechanistic Insights and Implications for the Design of Diagnostics and Therapeutics	bioRxiv		7
2020	A Proposal of an Alternative Primer for the ARTIC Network's Multiplex PCR to Improve Coverage of SARS-CoV-2 Genome Sequencing	bioRxiv	2	
2020	First 12 Patients with Coronavirus Disease 2019 (COVID-19) in the United States	medRxiv	12	109



美国化学文摘社(CAS) 为抗击新冠病毒提供数据集

OPEN ACCESS: CAS COVID-19 ANTIVIRAL CANDIDATE: COMPOUNDS DATASET

CAS 抗新冠病毒数据集

50,000候选化合物

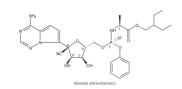
包括已知或潜在的抗病毒活性物质以及相关的数据,以支

持研究, 数据挖掘和分析应用

下载网址: https://www.cas.org/covid-19-antiviral-compounds-dataset

```
L-Alanine, N-[(S)-hydroxyphenoxyphosphinyl]-, 2-ethylbutyl ester, 6-ester
C27H35N608P
1809249-37-3 Copyright (C) 2020 ACS
42 45 0 0 1 0 0 0
24738.466831027.3695
                        0.0000 N
14556.860113339.0458
                        0.0000 0
35135.6204 8964.8958
                        0.0000 C
41864.271512849.6839
                        0.00000 0
48592,9226,8964,8958
                        0.0000 P
48592.922616734.4721
                        0.00000
53768.806911953.1943
                        0.0000 N
48592.9226 2988.2986
                        0.0000 0
58944.6882 8964.8958
                        0.0000 C
```

- > <cas.index.name>
- L-Alanine, N-[(S)-hydroxyphenoxyphosphinyl]-, 2-ethylbutyl ester, 6-ester with 2-C-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-2,5-anhydro-D-altrononitrile
- > <molecular.formula> C27H35N6O8P
- > <molecular.weight> 602.58
- > <density.predicted>
- 1.47±0.1 g/cm3 Temp: 20 °C; Press: 760 Torr
- > <pka.predicted> 12.00±0.70 Most Acidic Temp: 25 °C





美国化学文摘社(CAS) 为抗击新冠病毒提供数据集

(00000-19)**Protein Target Thesaurus**

CAS 抗新冠病毒候选靶向蛋白数据集

包括SARS-CoV-2 病毒蛋白,病毒入侵所依赖的 宿主蛋白, 宿主免疫反应相关蛋白等, 下载网址:

https://www.cas.org/covid-19-protein-targetthesaurus

63个靶向蛋白以及它们的常用名

328404-18-8

enzyme 2

Angiotensin-converting Carboxypeptidase, angiotensin-converting enzyme-related Angiotensin-converting enzyme-related carboxypeptidase Carboxypeptidase ACE2

ACE2

APN 01

Angiotensin I converting enzyme II

Angiotensin I converting enzyme 2

Angiotensin 1 converting enzyme 2 Angiotensin 1 converting enzyme II

E.C. 3.4.17.23

EC 3.4.17.23

ACE-II

ACE-2

Angiotensin-converting enzyme II

ACEII



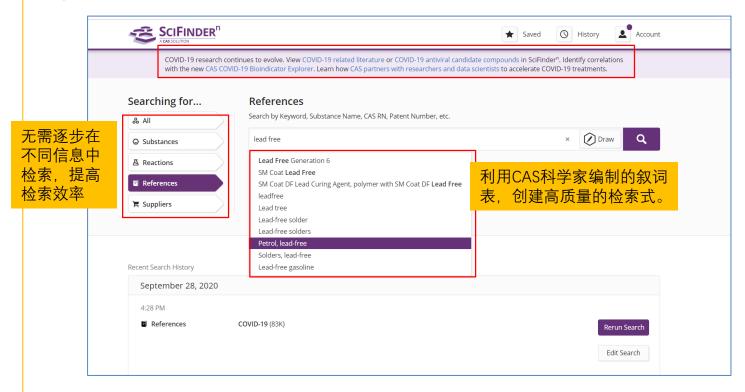
大纲

- 美国化学文摘社(CAS)内容特色及定制服务
- 为什么需要SciFinderⁿ



- SciFinderⁿ完全涵盖SciFinder中的内容
- SciFinderⁿ整合了专利流程解决方案PatentPak,利于快速定位专利中的关键信息及 节省阅读、理解专利原文所花费的时间
- SciFinderⁿ整合了方法学解决方案MethodsNow-Synthesis, 无需获取全文即可获得合成方法所需的详细信息
- 采用先进的技术和算法,可按相关性排列检索结果,提高获取信息的效率
- 多样化的聚类选项,细化研究,拓展思路
- 利用CAS的大数据及新技术,提供逆合成设计工具Retrosynthesis,触发创新灵感



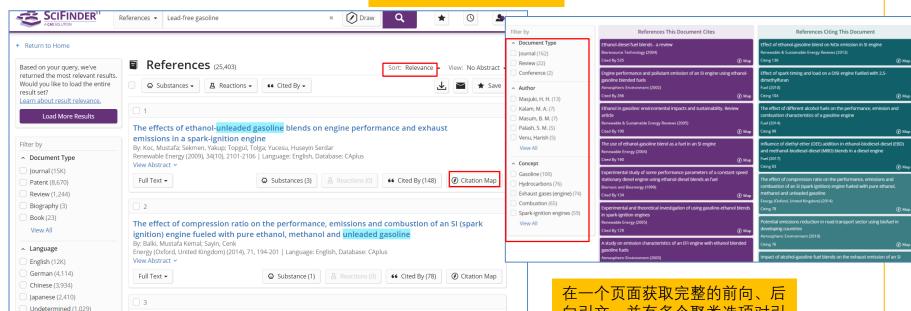


View All

A chronic inhalation study with unleaded gasoline vapor

By: MacFarland, H. N.; Ulrich, C. E.; Holdsworth, C. E.; Kitchen, D. N.; Halliwell, W. H.; Blum, S. C.

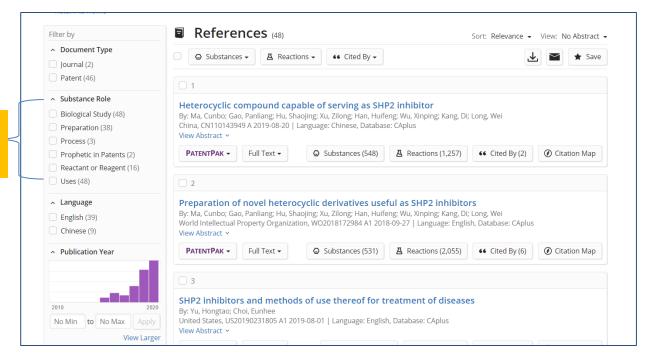
按相关性排序, 无需花费 更多时间查找相关信息



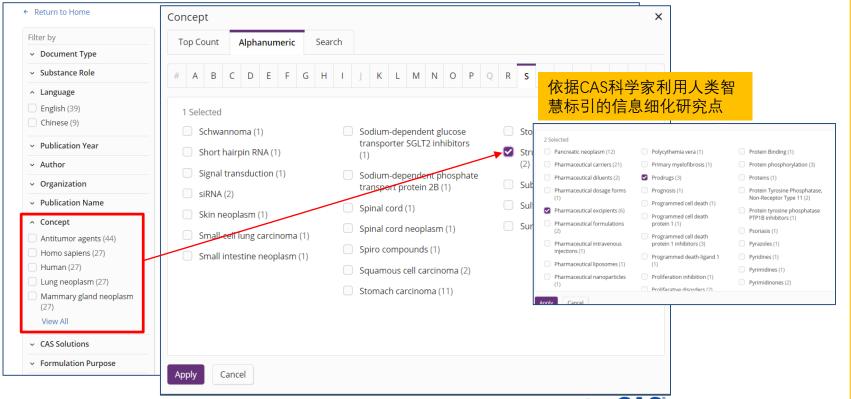
向引文,并有多个聚类选项对引

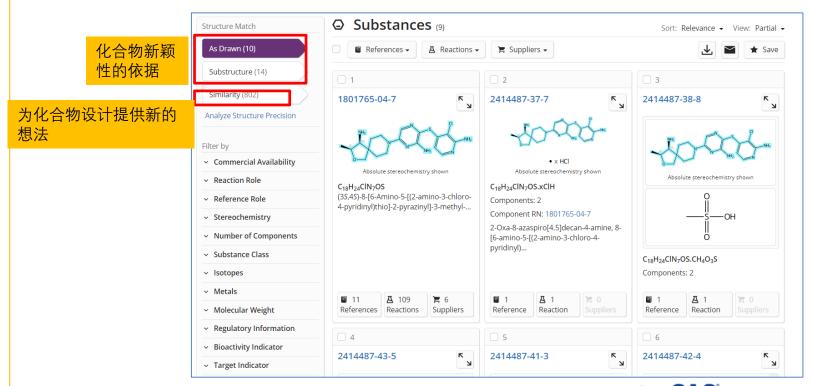


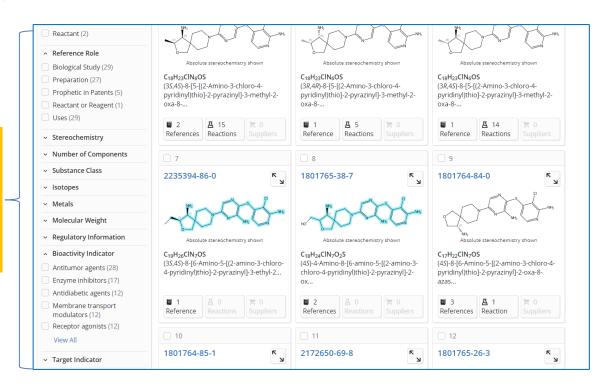
依据CAS科学家利用人 类智慧标引的信息,精 准定位文献



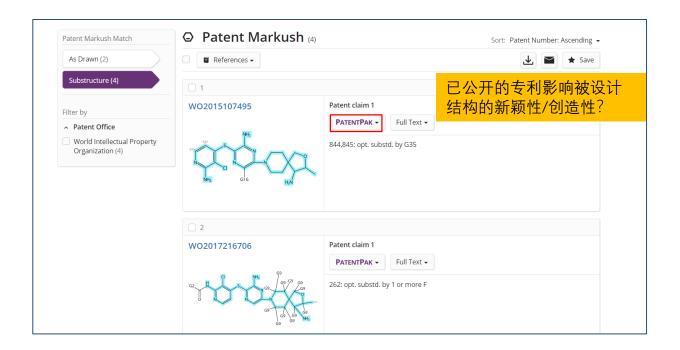


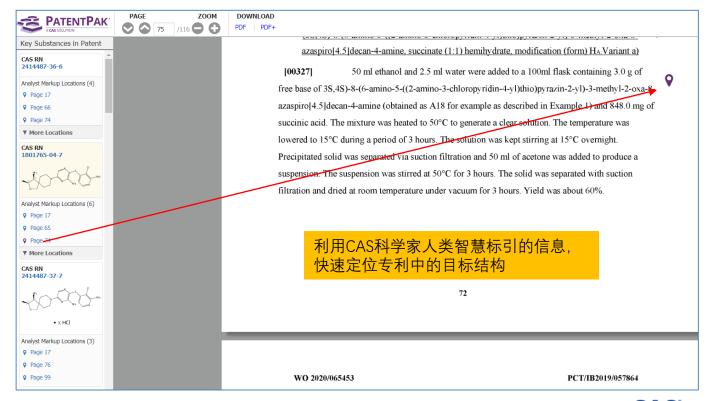




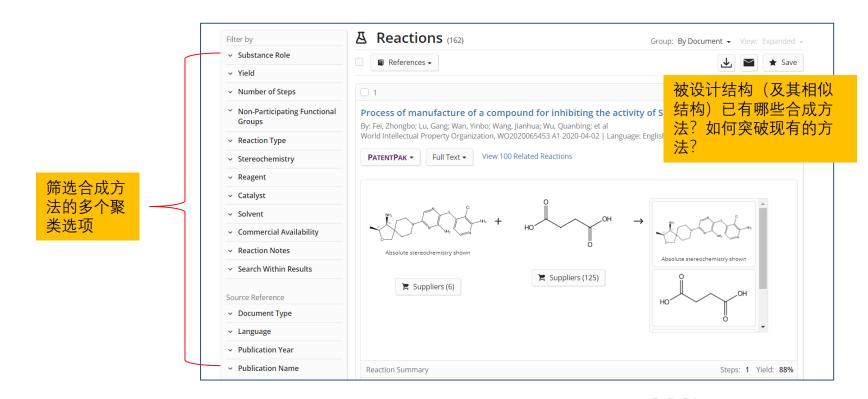


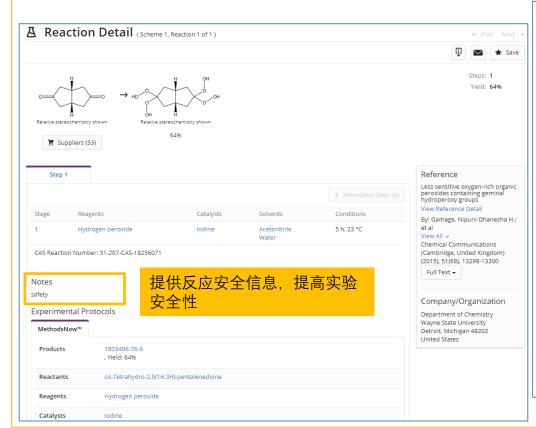






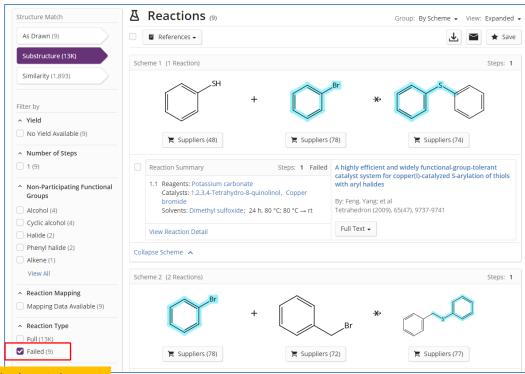








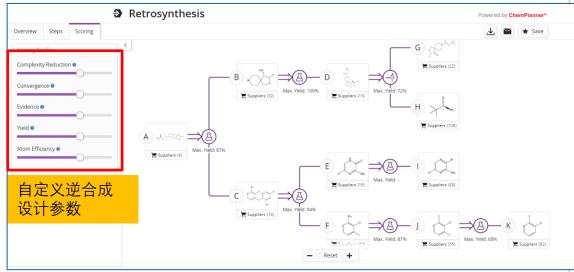




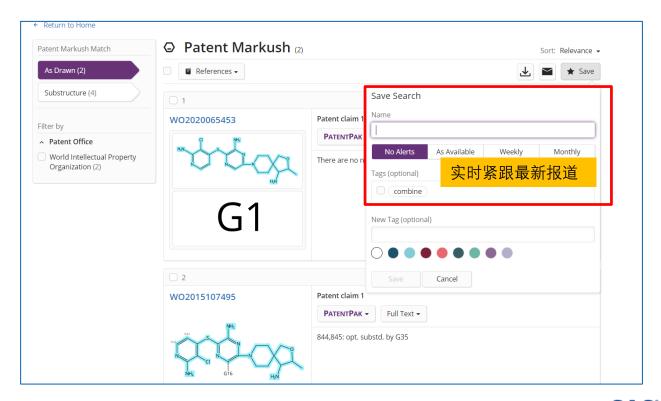
失败反应提醒, 避免走弯路

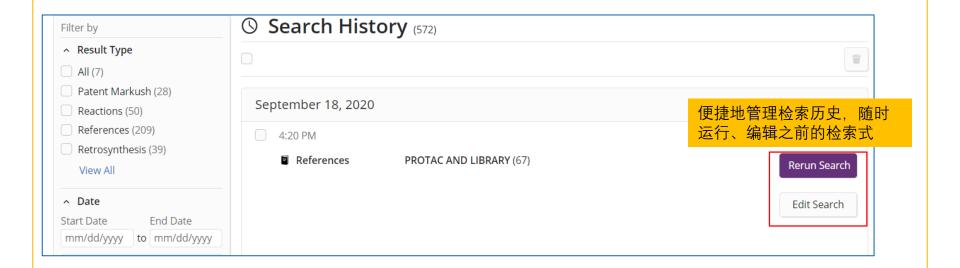












- CAS**科学家解读**的科技信息,有助于提高获取信息的效率
- 多种聚类筛选项,一目了然,节省逐步筛选/二次检索的时间
- 数据的全面性和及时性,有助于确定研究的新颖性,避免潜在的专利风险
- 利用CAS大数据和先进技术的逆合成设计工具有助于突破现有合成方法,为 获得最优方法提供见解和思路
- CAS科学家利用**人类智慧标引**的信息,有助于细化研究点
- 便捷地管理检索历史

SciFinderⁿ ——最先进的化学信息检索工具



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