Vinit Kunte

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Agenda

- Introduction of CAS
- What is SciFinderⁿ?
- Content and Coverage in SciFinderⁿ
- A few online Case studies General interest
 - Substance searching
 - Reference searching and PatentPak
 - Reaction searching and MethodsNow Synthesis
- CAS Retrosynthesis planner
- Markush structure searching
- Questions and Answers



Chemical Abstract Service

 More than 2,500 scientists, engineers are behind creation of SciFinderⁿ.

 They intellectually analyze published articles, patents and "structure" them with standard concepts/ keywords for easy

retrieval.





Value added Indexing



(12) 发明专利申请

(10)申请公布号 CN 102836446 A

(21)申请号 201210158275.9

(22)申请日 2012.05.21

(71)申请人 华中科技大学 地址 430074 湖北省武汉市洪山区珞瑜路 1037 号

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(74) 专利代理机构 华中科技大学专利中心 42201

代理人 曹葆青

(51) Int. CI.

A61K 49/18 (2006. 01)

A61K 49/22 (2006.01)

A61K 9/10 (2006.01)

(54) 发明名称

体内相转变肿瘤靶向纳米泡及其制备方法和 用途

(57) 摘要

本发明属于生物医药技术领域,具体为一种体内相转变肿瘤靶向纳米泡及其制备方法和用途。纳米泡以偶联肿瘤靶向因子的聚磷酸酯 聚酯共聚物为包服材料,以可在体内发生液 - 气相转变的全氟反烷为泡心填充物质,采用预复乳-中空膜管乳化方法制备。纳米泡进入体内后,液态全氟皮烷在体温下发生液 - 气相转变,形成含气纳米池,通过靶向因子与肿瘤细胞的特异性结合。纳米泡高蛋在肿瘤病灶部位,从而改善肿瘤

A61K 45/00 (2006.01)

A61K 47/34 (2006.01) A61P 35/00 (2006.01)

Preparation method of in-vivo phase-transition tumor targeting nanobubble and its application

By: Liu, Wei; Xu, Haibo; Chen, Yunchao; Yang, Xiangliang; Cheng, Xin; Li, Huan; Luo, Binhua; Wan, Jiangling; Zhou, Xiaoshun

Abstract: The title nanobubble comprises filling material with perfluoropentane as core, which can have liquid-gas phase transition in vivo, and tumor targeted factor modified biodegradable polyphosphate-polyester copolymer as coating material, and the nanobubble contains polyphosphate-polyester copolymer 1-30%, tumor targeted factor 0.1-10%, liquid perfluoropentane 0.1-5% and pure water. The polyphosphate-polyester copolymer (average mol. weight 2000-60000, polyphosphate:polyester 1:5-5:1) has chem. structure as in patent. The particle size of nanobubble (PDI \leq 0.35) is 30-1000 nm. The polyphosphate is polyethyl alkyl phosphate (C₁-C₁ alkyl) or polypropyl alkyl phosphate (C₁-C₁ alkyl). The polyester is D,L-lactide, poly L-lactide or the like. The tumor targeted factor includes folic acid, lactoferrin or the like. The preparation method consists of dissolving polyphosphate-polyester copolymer in mixture of Et acetate and THF to obtain oil phase 1, using liquid perfluoropentane as oil phase 2, mixing oil phases by high shear(5000-30000 rpm) in ice bath, dripping oil phase into water phase by magnetic stirring in ice bath to obtain $O_2/O_1/N$, pushing mixture through hollow-membrane tube, pouring mixture into normal saline, stirring at 25°C by magnetic force, removing organic solvent by extraction The hollow-membrane tube is prepared with polyethylene, polypropylene or the like. The MRI contrast agent (0.01-3%) is added into nanobubble. The title nanobubble is used for delivery of anti-cancer drugs, which include paclitaxel, docetaxel or the like.

权利要求书 2 页 说明书 11 页 附图

PATENTPAK PDF Full Text ▼

Patent Family

Patent	Language	Kind Code	PatentPak Options	Publication Date	Application Number	Application Date
CN102836446	Chine	Α	PDF	2012-12-26	CN2012-10158275	2012-05-21
CN102836446	Chinese	В	PDF	2014-08-27	CN2012-10158275	2012-05-21



Value added Indexing

Abstract

Belonging to the technical field of biomedicine, the invention specifically relates to an in-vivo phase transition tumor targeted nanobubble, its preparation method and application. The nanobubble takes a polyphosphate-polyester copolymer of a coupling tumor targeting factor as a coating material, adopts perfluoropentane able to undergo liquid-gas phase transition in vivo as a bubble core filling material, and is prepared by a pressultiple emulsion-hollow membrane tube emulsification method. When the nanobubble enters the body, the "quid perfluoropentane undergoes liquid-gas phase transition at body temperature to form a gas-come ining nanobubble. By means of the specific

part, thus improving the tumor focus ultrasonic imaging effect. an MRI contrast agent to improve the tumor focus MRI imaging effect. loaded with an antitumor drug and used for targeted treatment of tumors, i diagnosis-treatment integrated multifunctional imageological nano-contras

Chinese patent



Inventor: 刘卫 徐海波 陈元超 杨祥良 程於 李欢 罗斌华 五江縣

combination of a targeting factor and a tumor cell, the namebubble can cor Preparation method of in-vivo phase-transition tumor targeting nanobubble and its application

iu, Wei; Xu, Haibo; Chen, Yunchao; Yang, Xiangliang; Cheng, Xin; Li, Huan; Luo, Binhua; Wan, Ijangling; Zhou, Xjaoshun

Abstract: In title nanobubble comprises filling material with perfluoropentane as core, which can have liquid-gas phase transition in vivo, and tumor a geted factor modified biodegradable polyphosphate-polyester copolymer as coating material, and the nanobubble contains polyphospha polyester copolymer 1-30%, tumor targeted factor 0.1-10%, liquid perfluoropentane 0.1-5% and pure water. The polyphosphate-polyester copolymer (average mol. weight 2000-60000, polyphosphate:polyester 1:5-5:1) has chem. structure as in patent. The particle size of nanopulpide (PDI ≤ 0.35) is 30-1000 nm. The polyphosphate is polyethyr alkyl phosphate (C₁-C₁ alkyl) or polypropyl alkyl phosphate (C₁-C₁ alkyl). The polyester is D,L-lactide, poly L-lactide or the like. The tumor targeted factor includes folic acid, lactoferrin or the like. The preparation method consists of dissolving polyphosphate-polyester copolymer in mixture of Et acetate and THF to obtain oil phase 1, using liquid perfluoropentane as oil phase 2, mixing oil phases by high shear (5000-30000 rpm) in ice bath, dripping oil phase into water phase by magnetic stirring in ice bath to obtain O₂/O₁/W, pushing mixture through hollowmembrane tube, pouring mixture into normal saline, stirring at 25°C by magnetic force, removing organic solvent by extraction The hollow-membrane tube is prepared with polyethylene, polypropylene or the like. The MRI contrast agent (0.01-3%) is added into nanobubble. The title nanobubble is used for delivery of anti-cancer drugs, which include paclitaxel, docetaxel or the like.

PATENTPAK PDF Full Text -Patent Family **Publication Date** Patent Kind Code PatentPak Options **Application Number Application Date** Language CN102836446 Chinese PDF 2012-12-26 CN2012-10158275 2012-05-21



Concepts

Antibodies and Immunoglobulins

Role: Biological Use, Unclassified

Antitumor agents

Ceramics

Dissolution

Extraction

Fluoropolymers

Role: Other Use, Unclassified

Imaging agents

Lactoferrins
Role: Reactant

Liver neoplasm

Microstructure

NMR imaging

NMR imaging agents

Particle size

Particle size distribution

Physiological saline solutions

Polycarbonates

Role: Other Use, Unclassified

Polysulfones

Role: Other Use, Unclassified

Stability

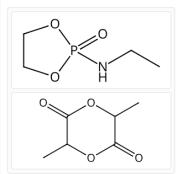
Transferrins

Role: Reactant

Zeta potential

Substances

1417421-76-1

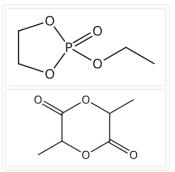


$(\mathsf{C_6H_8O_4.C_4H_{10}NO_3P})_x$

1,4-Dioxane-2,5-dione, 3,6-dimethyl-, polymer with *N*-ethyl-1,3,2-dioxapho spholan...

Role: Reactant, Synthetic Preparation, Reactant or Reagent, Preparation

326604-67-5



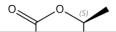
$(C_6H_8O_4.C_4H_9O_4P)_x$

1,4-Dioxane-2,5-dione, 3,6-dimethyl-, polymer with 2-ethoxy-1,3,2-dioxaphosphola...

Role: Properties, Reactant, Synthetic Preparation, Reactant or Reagent, Preparation

99896-85-2

33135-50-1



CAS is a division of the American Che Copyright 2018 American Chemical Society.

Content and coverage

Reference

- >48M references available
- Patents from 63 patent issuing authorities
- 10,000+ Journal Publications
- PatentPak

<u>Substances</u>

- >148M substances
- >7.6BProperty values
- >1M Markush structures
- Back referencing for substances till 1800

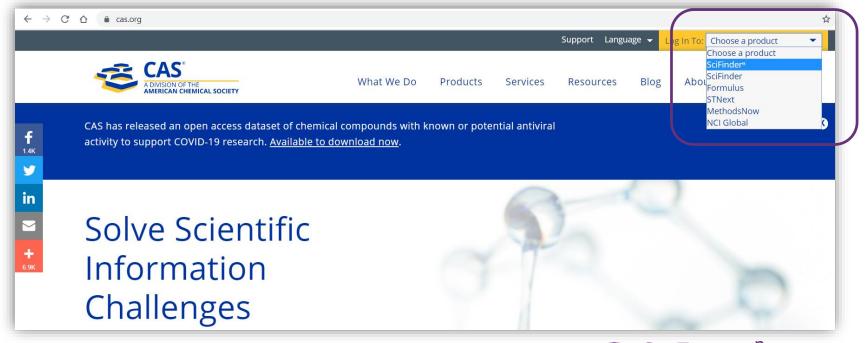
<u>Reactions</u>

- >116M reactions available
- MethodsNow Synthesis
- CAS Retrosynthesis planner



How to Log in into SciFinder-n

1. Go to https://www.cas.org/ > Login to > SciFinder-n



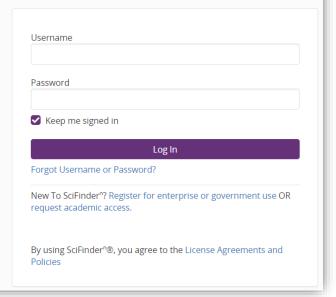
Enter your Login credentials



SciFinderⁿ is a research discovery application that provides integrated access to the world's most comprehensive and authoritative source of references, substances and reactions in chemistry and related sciences.

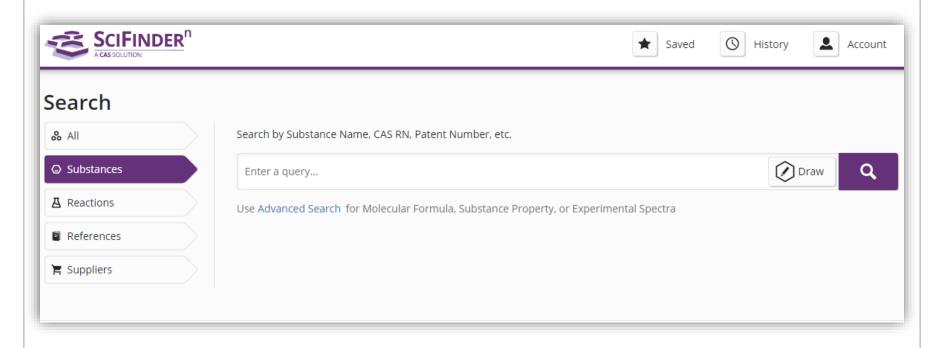
Log In with your CAS Username

Learn more





SciFinder-n interface

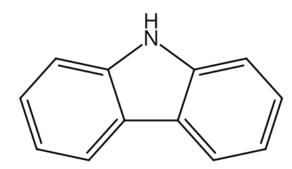


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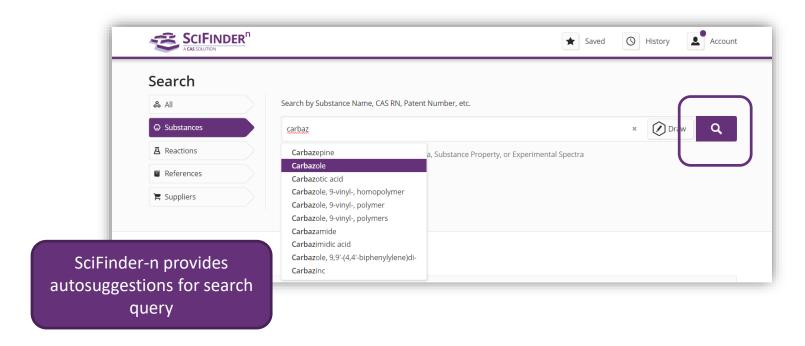
Substance searching

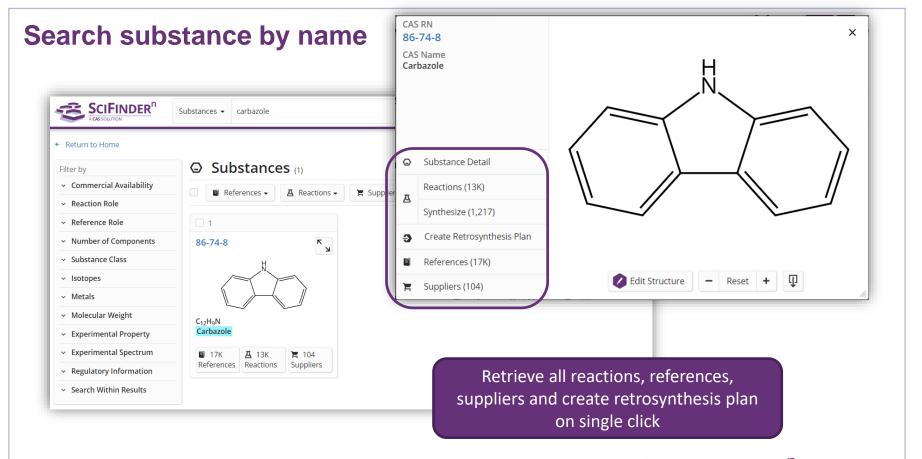


- Search substance query: Carbazole
 - 1. Search substance by name (Commercial name, IUPAC name or CAS registry number)
 - 2. Search substance using structure



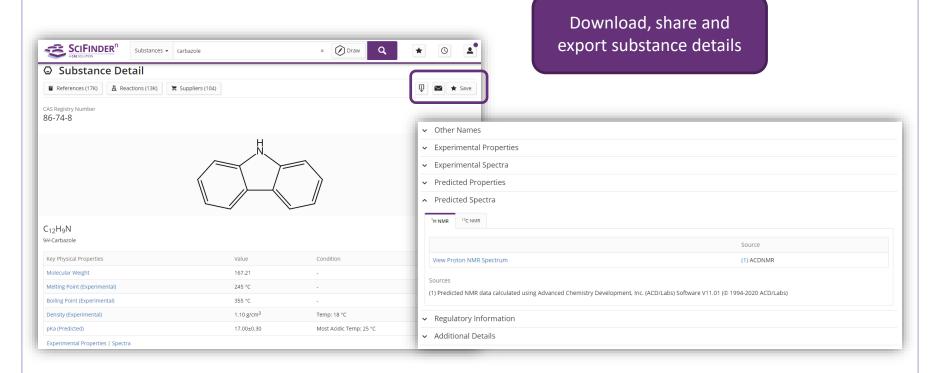
1. Search substance by name





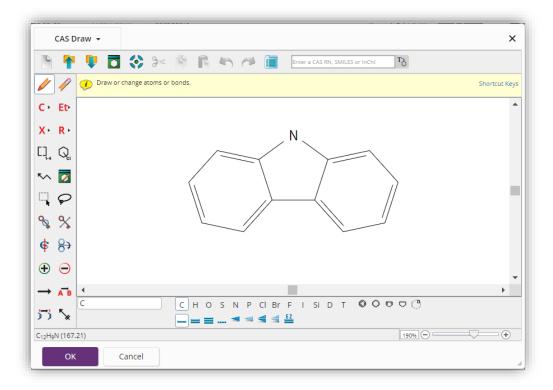


Substance details



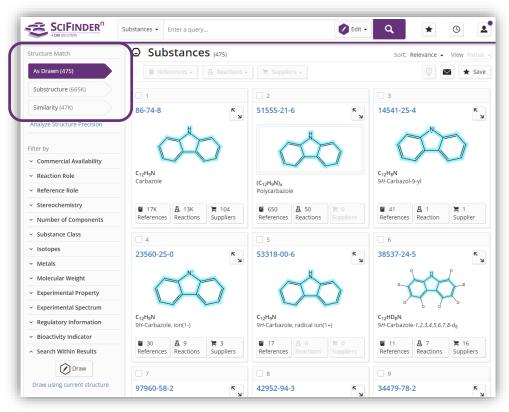


2. Search substance using structure

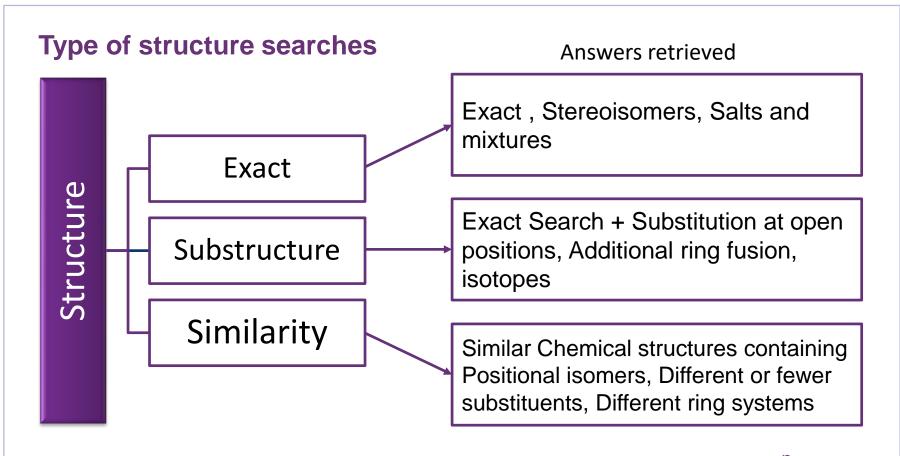




Substance search









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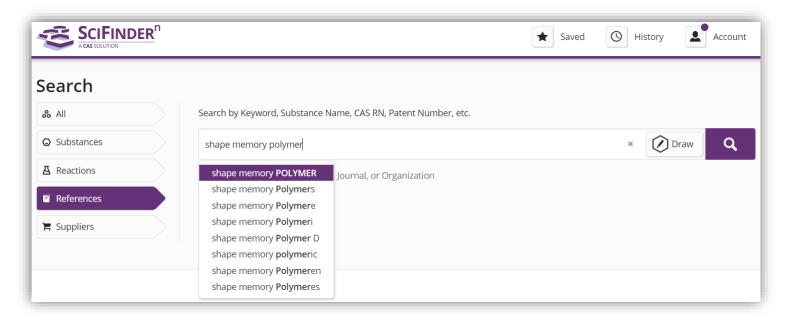
Case study

Search references for Shape memory polymers

- 1. Search for **Shape memory polymer** as a keyword
- 2. Retrieve all references and filter all references by document type Patent
- 3. Explore all other refinement options



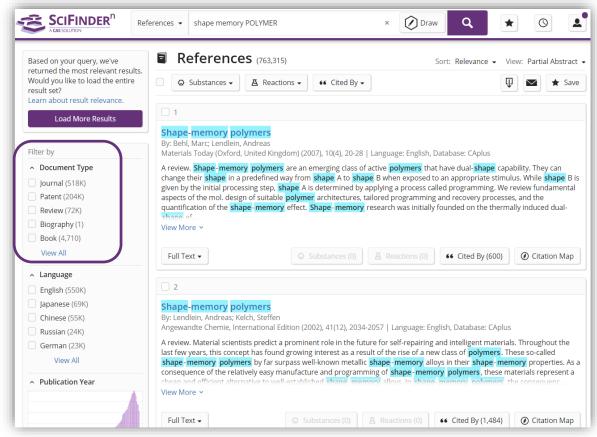
Key word search





References retrieved

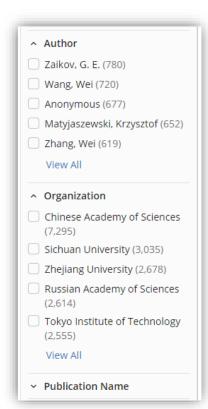
A new, proprietary algorithm presents the most relevant answers for your immediate review and evaluation alongside other important criteria

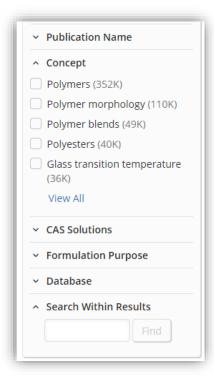




Different filtration options

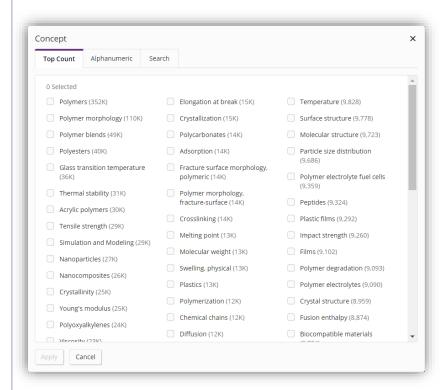






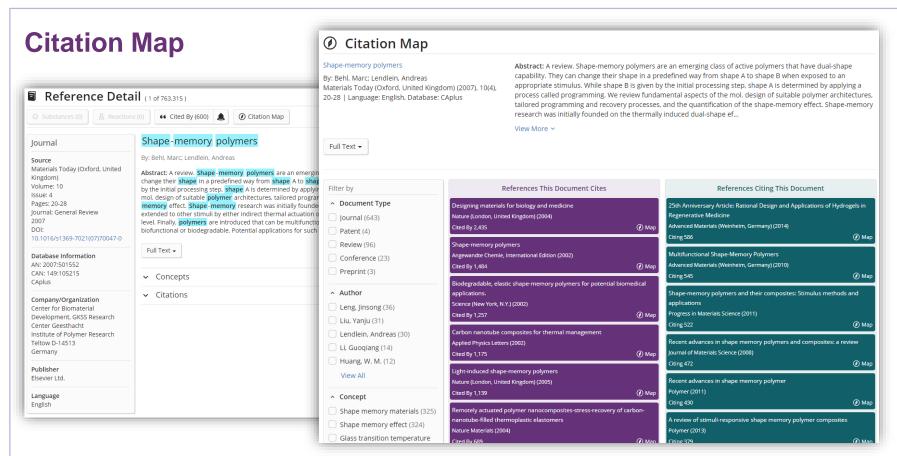


Refine references using concept titles



Top Count	Alphanumeric	Search		
ncept Name				
ano*				Sear
Select All on F	age			
_	mical nanocapsules		Nanocatalysts (157)	Nanoflowers (28)
(1)			Nanochannels (26)	Nanoflowers, nanoroses (1)
	anofibers (247)		Nanoclusters (278)	Nanofluidic devices (4)
Carbon n	anostructured (50)		Nanocoils (17)	Nanofluidics (9)
Carbon n	anotube fibers (335)		Nanocolloids (18)	Nanofluids (116)
Carbon n	anotubes (11K)		Nanocomposites (26K)	Nanogels (191)
Cellulosio	nanofibers (33)		Nanoconfinement (20)	Nanohorns (70)
Core-she	ll nanoparticles (565)		Nanoconjugates (34)	nano-hydroxyapatite-collagen
Cosmetic	nanoemulsions (21)		Nanocrystalline materials (156)	(3) Nanoimprint lithography (532)
Electric n	anogenerators (29)		Nanocrystalline metals (134)	Nanoliposomes (1)
Electron nanolitho	beam ography (16)		Nanocrystallites (36)	Nano-liquid chromatography

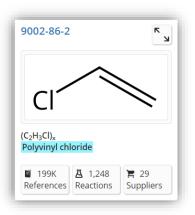


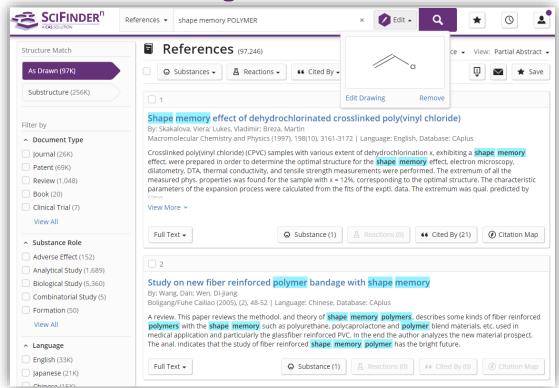




Combine text and structure searching

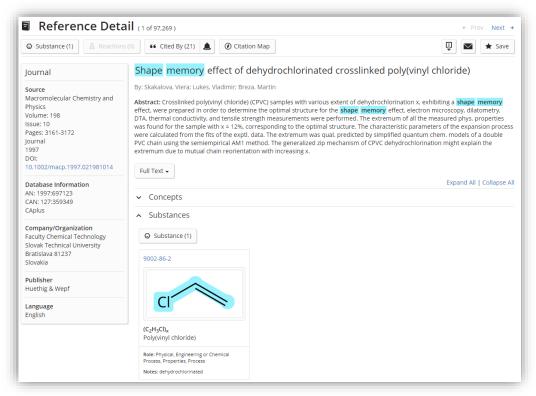
Draw structure within 'Draw" option available to combine Keyword and structure query







One of the reference





PatentPak is a CAS solution to ease the substance search in patents

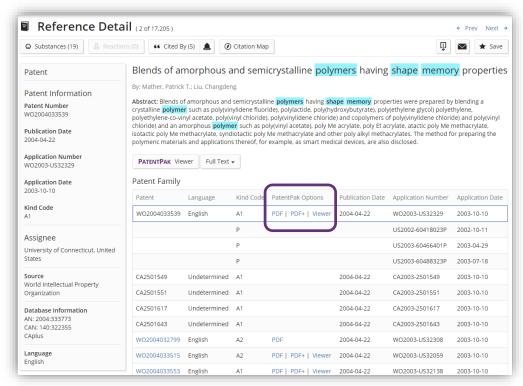


- Types of issues & challenges faced in day-today while searching patents
- What is PatentPak? And how does it work?
- Coverage and Content of PatentPak
- What if an important Patent is not in English?
- Conclusion



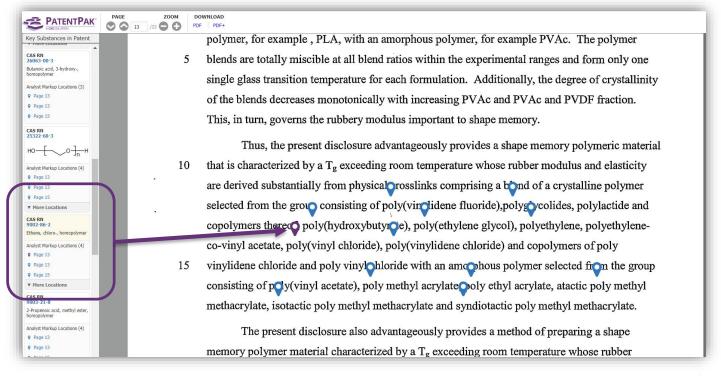
Search patented references published in English language

Explore patent in PatentPak





PatentPak viewer



Situation 1: Patent disclosed substances only by IUPAC name

vacuo and collected in EtOH, azeotroping to dryness to afford the title compound.

Step 2: 5-Amino-2-fluoro-4-methylbenzoic acid

2-Fluoro-4-methyl-5-nitrobenzoic acid (900 mg, 4.52 mmol) in MeOH (70 ml) was treated with ammonium formate 1(425 mg, 22.60 mmol) and Pd (Carbon) (144 mg, 1.356 mmol). The mixture was degassed thoroughly refilling with nitrogen and heated

to 60 °C for 2 hrs. The mixture was filtered through silic The filtrate was passed through SCX-2 resin (30g 0.67 (250 ml) followed by 2M ammonia in MeOH (250 ml). T

If the patent is big, it is difficult to find the substance by just its name......

were evaporated to dryness and the resulting crude rerecrystallisation from MeOH to afford the title compound;

LC-MS: Rt 0.53 mins; MS m/z 170 {M+H}⁺; Method 10minLC_v003

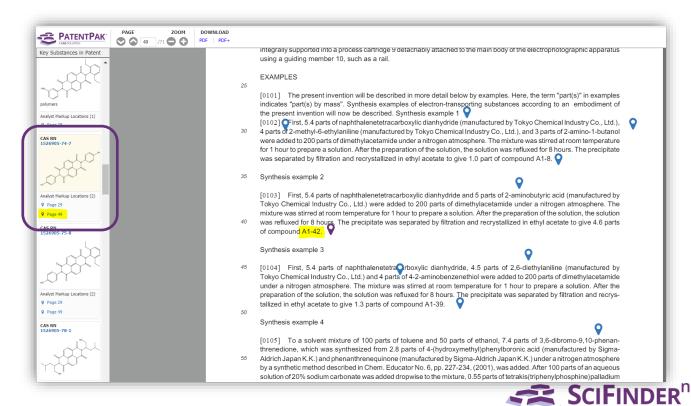
Step 3: 5-Amino-2-fluoro-4-methyl-N-(2-(4-methylpiperazin-1-yl)benzyl)benzamide

A mixture comprising (2-(4-methylpiperazin-1-yl)phenyl)methanamine (413 mg, 2.010 mmol) and 5-amino-2-fluoro-4-methylbenzoic acid (step 2)(340 mg, 2.010 mmol) in DMF (3 ml) was treated with DIPEA (0.351 ml, 2.010 mmol) followed by HATU (764 mg, 2.010 mmol) and stirred at 25 °C for 24 hrs. The mixture was partitioned between water and EtOAc. The organic portion was washed with sat. aq. NaHCO₃, 0.5 M LiCl and brine (each back extracted with EtOAc). The combined organic layers

were dried (MgSO₄), filtered and evaporated to dryness to give a pink oil. Purification



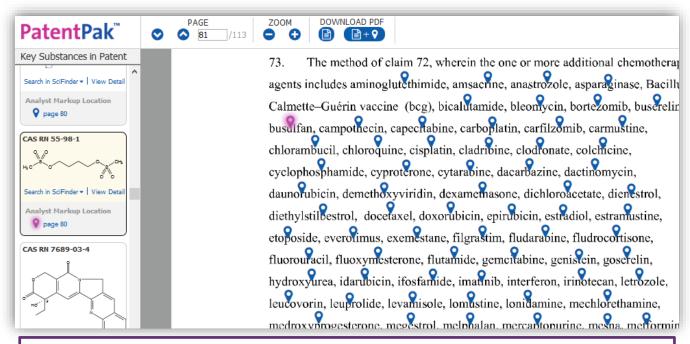
Situation 2: Name or structure not given - Only data is available.



Situation 3: Disclosed/Claimed compounds are in tabular form.

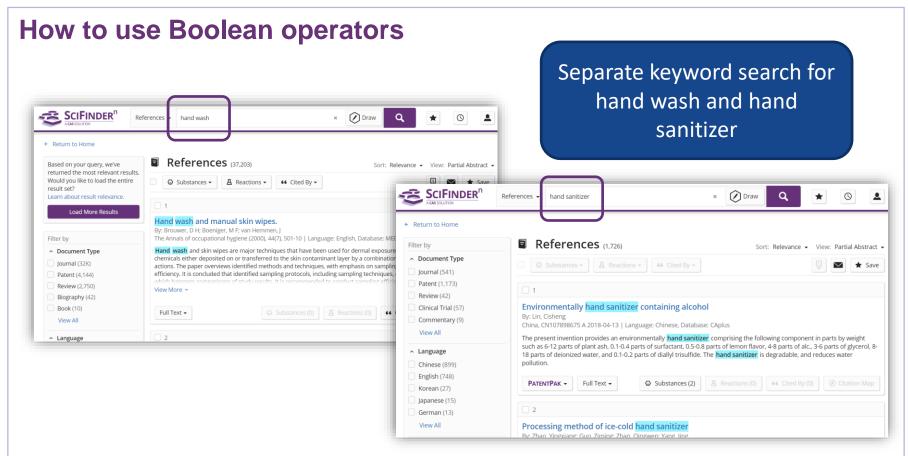
I-1-30 3-CF ₃ 1 C-R ¹ Cl H H H Cl NM I-1-31 3-CF ₃ 1 C-R ¹ Cl H H Cl H NM I-1-32 3-CF ₃ 1 C-R ¹ Cl H H CH ₃ H Cl H H Et H CH ₃ H CH ₃ Cl Cl H CH ₃ Cl Cl Cl Cl Cl Cl Cl C				n	R1	Example
I-1-30 3-CF ₃ 1 C-R ¹ Cl H H H Cl NM I-1-31 3-CF ₃ 1 C-R ¹ Cl H H Cl H NM I-1-32 3-CF ₃ 1 C-R ¹ Cl H H CH ₃ H Cl H H Et H CH ₃ Cl H CH ₃ Cl H CH ₃ Cl H CH ₃ Cl Cl H CH ₃ Cl Cl Cl Cl Cl Cl Cl C	H CH ₃ H H Cl H	CH ₃	СН	1	2-CF ₃	I-1-28
I-1-31 3-CF ₃ 1 C-R ¹ Cl H H Cl H NM I-1-32 3-CF ₃ 1 C-R ¹ Cl H H Et H	-R ¹ Cl H H OMe H NMR	Cl	C-R ¹	1	3-CF ₃	I-1-29 I
I-1-32 3-CF ₃ 1 C-R ¹ Cl H H Et H	-R ¹ Cl H H H Cl NMR	Cl	C-R1	1	3-CF ₃	I-1-30
CI H EI H	-R ¹ Cl H H Cl H NMR	Cl	C-R ¹	1	3-CF ₃	I-1-31
	R ¹ Cl H H CH ₃ H	Cl	C-R ¹	1	3-CF ₃	I-1-32
	Cl H Et H	Cl)	9 % %	
	CH ₃ H H Cl H	CH ₃	_O	/ /	\ \ \ \ \ \ \ \	S
CH ₃ H H OMe H					Н	

Situation 4: Disclosed/Claimed compounds have a different common name (which you are not aware)



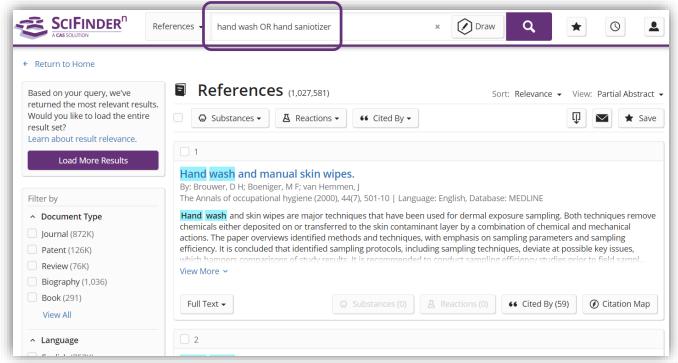
We had searched by "Sulfabutin" and were not aware that it's also called "busulfan"



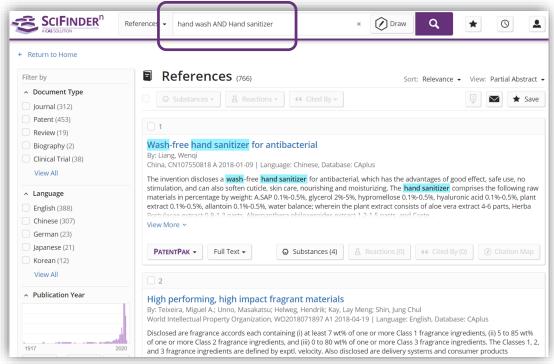




Use 'OR' Boolean operator to get combined search for both keywords

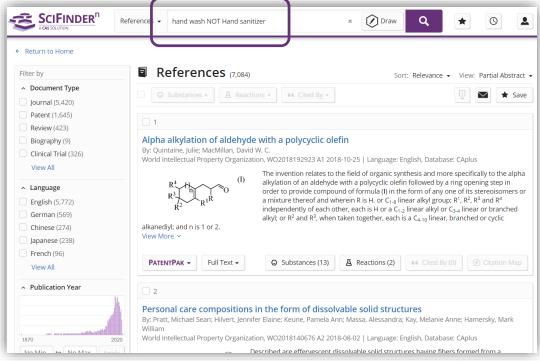


Use of 'AND' Boolean operator to get references containing both keywords/ concepts in same reference



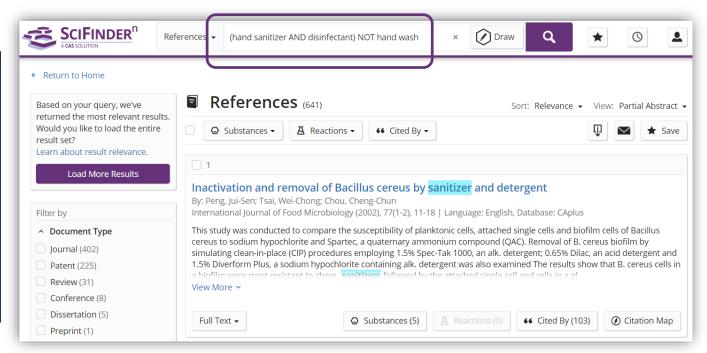


Use of 'NOT' Boolean operator to exclude one of the keyword from main search



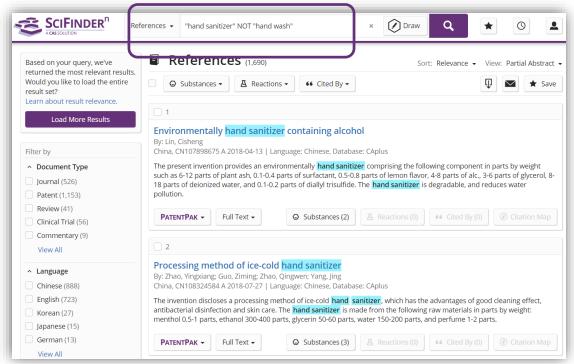
Use of parenthesis with Boolean operators

This will search references in which keyword/concept of Hand sanitizer and disinfectant is mentioned together but not Hand wash





Use of quotation marks to search exact phrase along with Boolean operator

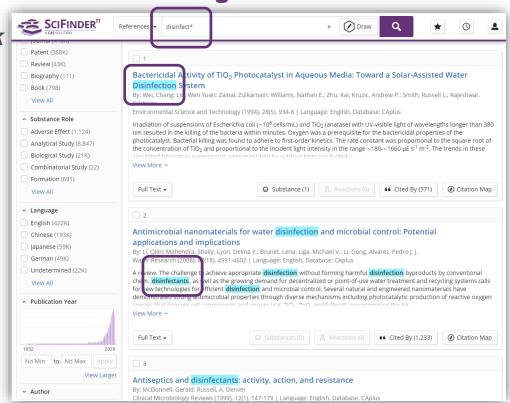




Special characters and wildcard searching

Use of Asterisk (*) mark

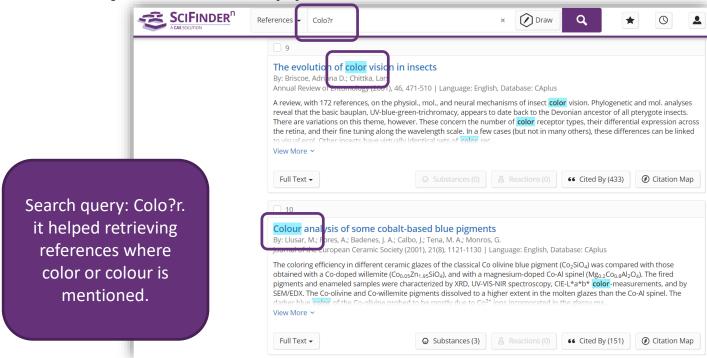
Query Disinfect* will match Disinfectant, disinfection, disinfecting, disinfected etc.





Special characters and wildcard searching

Use of question mark (?)





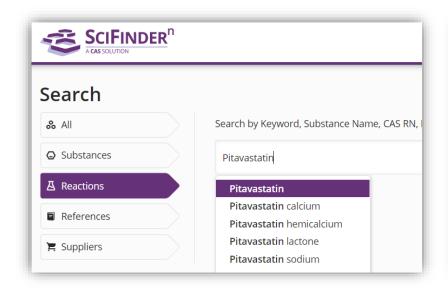
Agenda

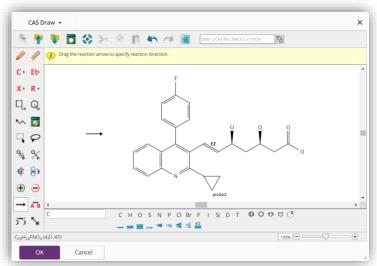
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Reaction searching

Search reactions for Pitavastatin

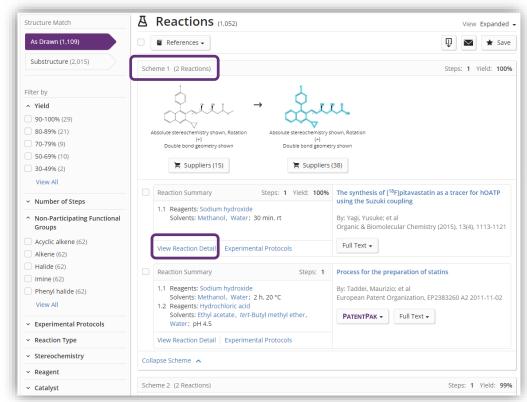






Synthetic reactions for Pitavastatin

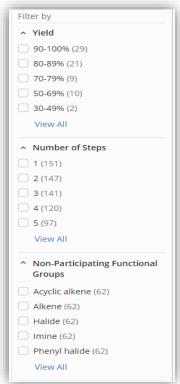
Selecting all required refinement options, available reactions



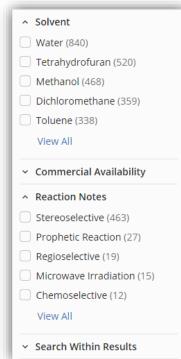
- ^ Stereochemistry
 ✓ Absolute Stereo Match (1,016)
 ✓ Absolute Stereo Mirror Image (8)
 ✓ Relative Stereo Match (28)
 ✓ Stereo that Doesn't Match Query (26)
 No Stereo in Answer Structure (31)
 - SciFinder-n will consider steriostructures. We can select required stereochemistry

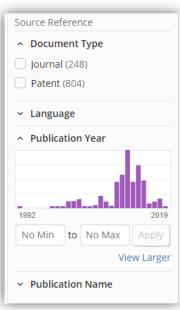


Search for exact reaction using various refinement options available



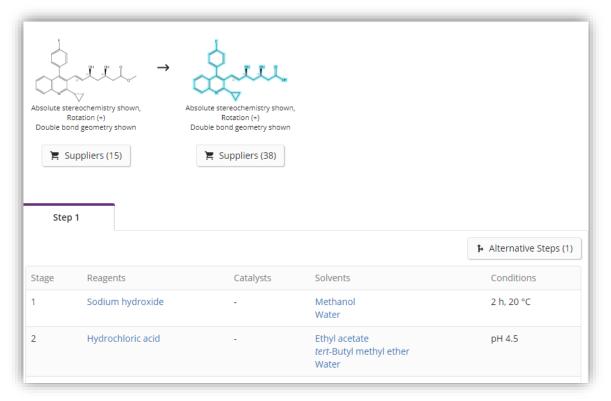
^	Experimental Protocols
	MethodsNow: Synthesis (142)
	Experimental Procedure (257)
^	Reaction Type
	Full (874)
	Product Only (178)
^	Stereochemistry
~	Absolute Stereo Match (1,016)
~	Absolute Stereo Mirror Image (8)
~	Relative Stereo Match (28)
	Stereo that Doesn't Match Query (26)
	No Stereo in Answer Structure (31)
~	Reagent
~	Catalyst







Exploring one of the reaction Scheme



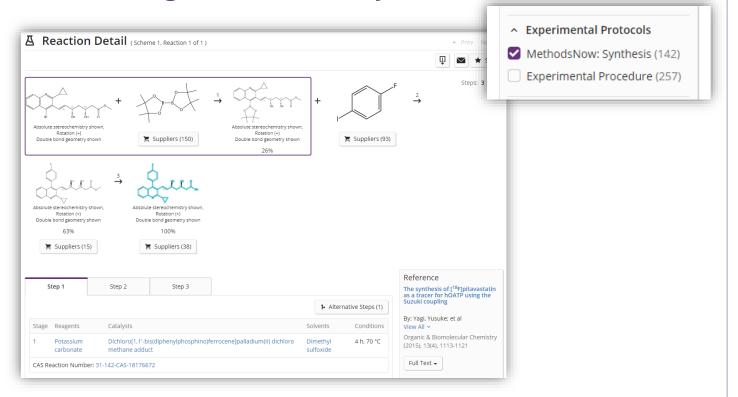


MethodsNow Synthesis

- MethdsNow provides detailed description of the synthetic experimental procedures utilized in the lab.
- Finding these methods and protocols in the literature is time consuming.
- MethodsNow[®] is a single source for searching the latest published scientific methods by featuring step-by-step instructions that you can take right to the lab and synthesize the compound.

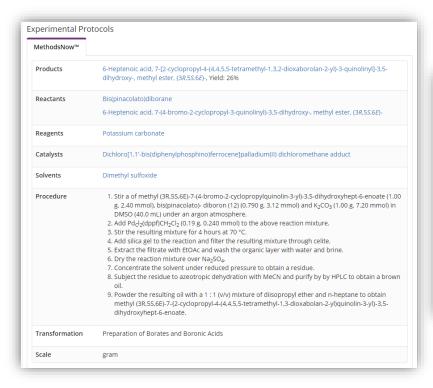


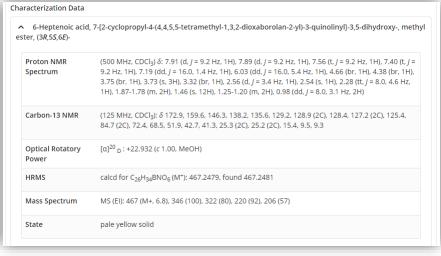
Experimental details using MethodsNow synthesis





Experimental details using MethodsNow synthesis







Agenda

- Introduction of CAS
- What is SciFinderⁿ?
- Content and Coverage searchable in SciFinderⁿ
- A few online Case studies General interest
 - Substance searching
 - Reference searching and PatentPak
 - Reaction searching
- CAS Retrosynthesis planner
- Markush structure searching
- Questions and Answers



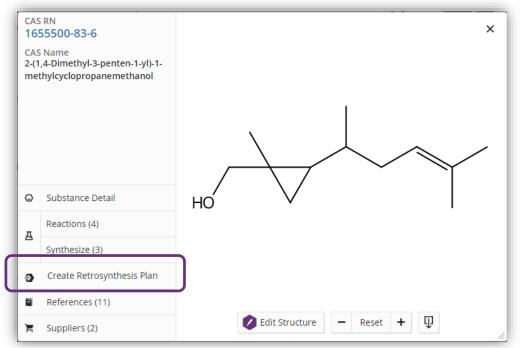
CAS Retrosynthesis Planner

- For new or known molecules, SciFinderⁿ will perform a full retrosynthetic analysis utilizing the renowned CAS collection of reactions, presenting results in a highly intuitive and interactive synthesis plan.
- It will help,
 - Synthesizing new molecular innovations
 - Process development and scale up
 - Evaluating new synthetic options
 - Identifying opportunities for new breakthroughs in methods development



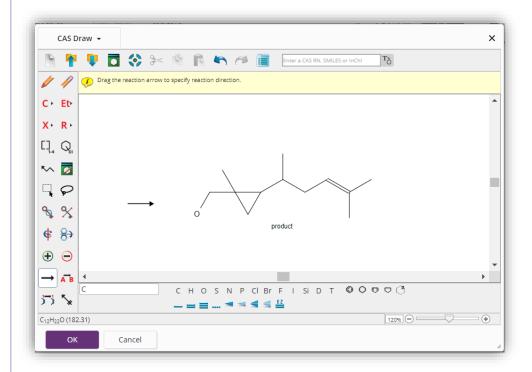
Creating retrosynthetic plan for required compound

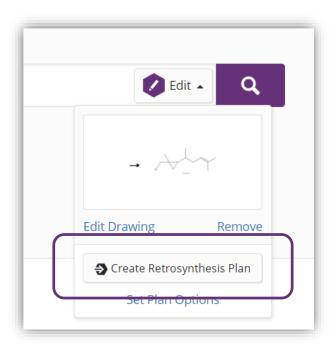
Built retrosynthetic plan for Rosyfolia





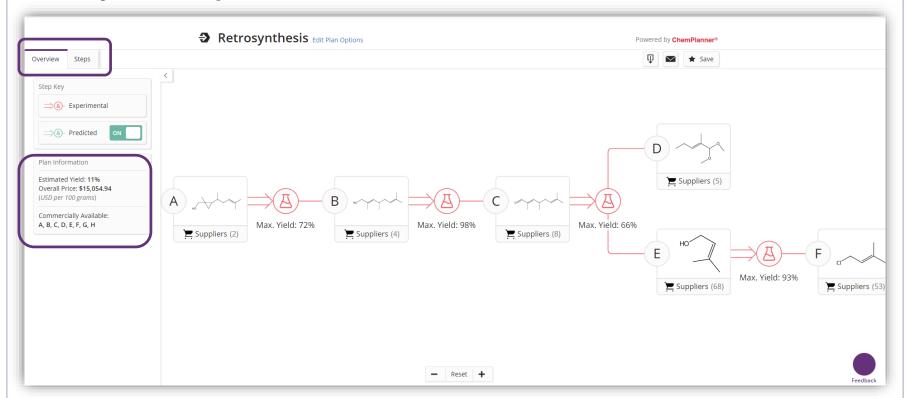
Creating retrosynthetic plan for required compound





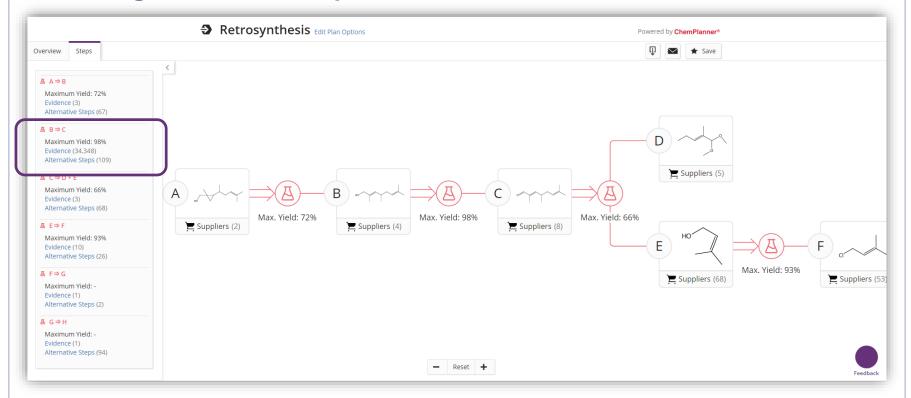


Retrosynthesis plan

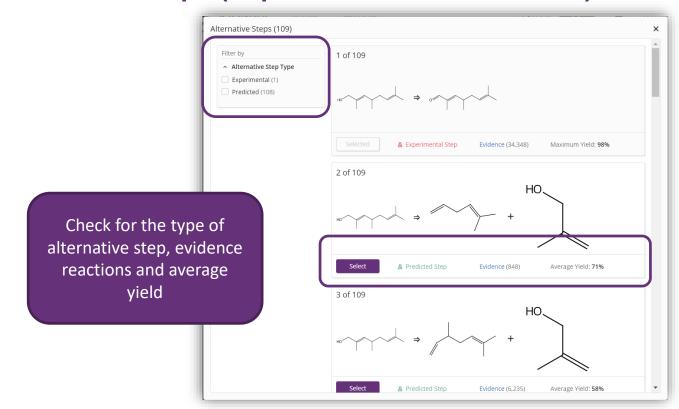




Searching alternative step

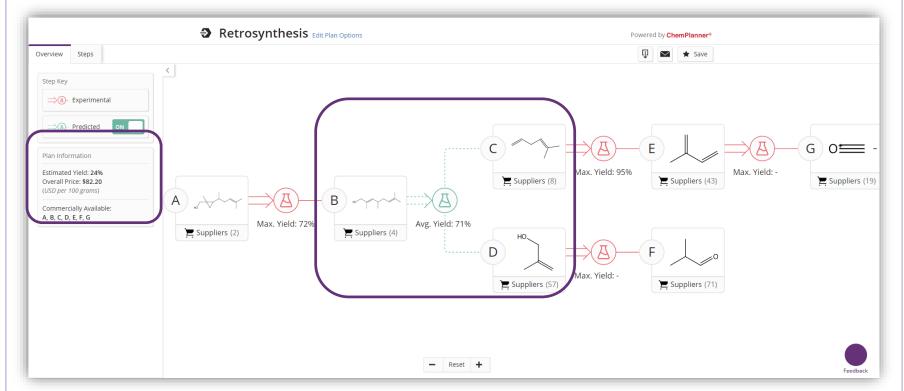


Alternative steps (Experimental and Predictive)



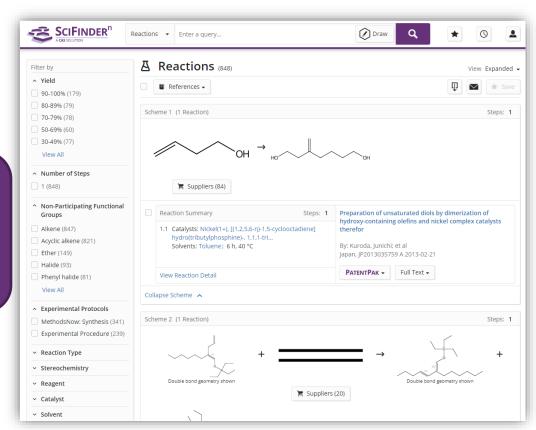


Incorporating predictive step



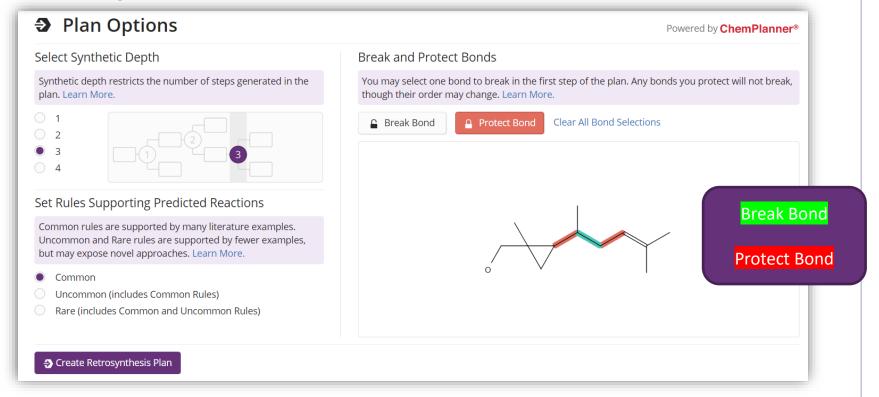
Evident reactions

Retrieves all published reactions discussing same type of chemical transformation



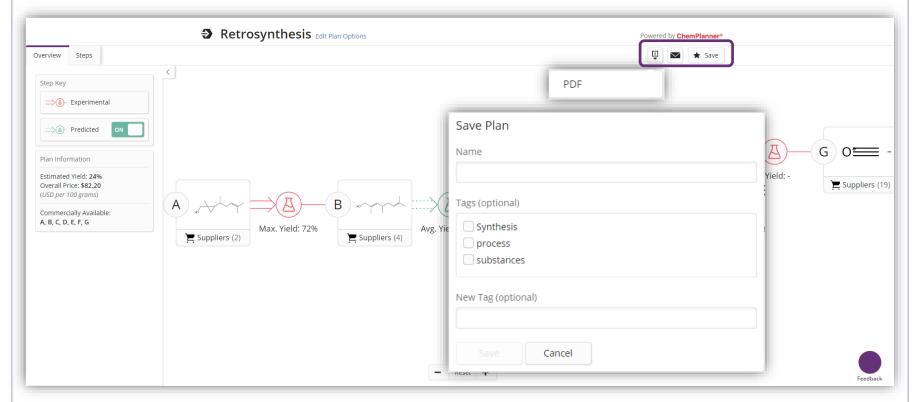


Edit Plan Options





Export, Share and Save retrosynthesis plan





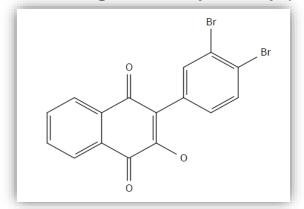
Agenda

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- Questions and Answers



Difficult to find some substances?

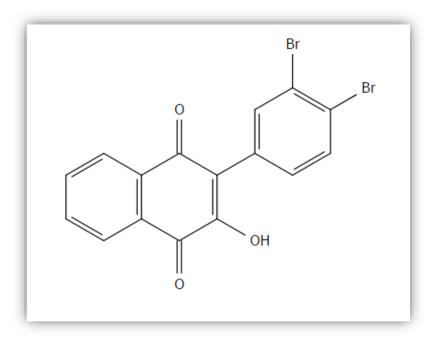
- Whether the substance I prepared is novel?
- Is the below substance claimed generically in any patent?

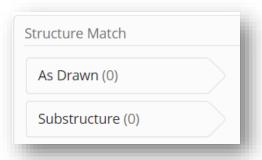


Find it with Markush search



Is this substance indexed?





So is this substance is a novel substance?



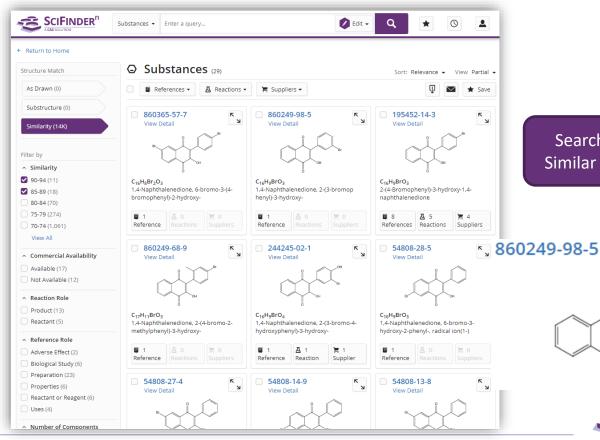
Indexing substances in patent

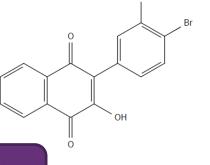
There are generally two types of substance indexing when it come to indexing in patent.

- Specific substances: Represented with an exact structure and name. these substances also get CAS Registry number.
- 2. Generic substances: Represented with general or generic structure. So a single generic structure can represent hundreds of substances at once.





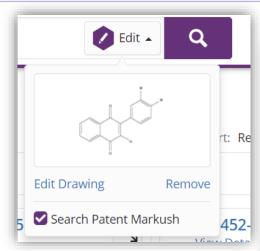




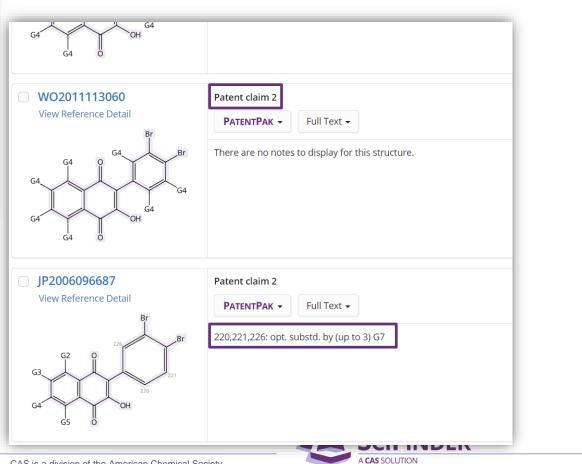
Searched query: Similar substances:

860365-57-7





Know exact location of substance using PatentPak



Patent

Patent Information

Patent Number JP2006096687

Publication Date 2006-04-13

Application Number IP2004-282855

Application Date

Kind Code

Assignee

Riron Soyaku Kenkyusho K. K., Japan

Source Japan

Glyoxalase I inhibitors containing compounds characterized by specific pharmacophores and screening of compounds showing glyoxalase I inhibiting or apoptosis inducing activity

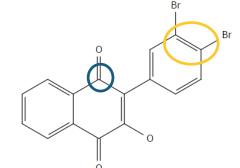
By: Tanuma, Seiichi; Yoshimori, Atsushi

Abstract: Glyoxalase I (I) inhibitors, which induce apoptosis because of accumulation of methylglyoxal, contain ≥1 selected from compounds characterized by specific pharmacophores (a figure is given) and their glycosides. The compounds may be flavones or their analogs I [R¹¹ = H, C₁₋₆ alkoxy; R¹² = H, OH, C₁₋₆ alkoxy, aryl, aryl, aryloxy, halo, etc.; R¹³ = H, OH, c₁₋₆ alkoxy, halo; R¹⁴ = H, OH; R¹⁵-R¹⁷ = H, OH, C₁₋₆ alkoxy, aryl, halo, etc.; R¹⁸ = H, OH, etc.; dotted line = direct bond or none; when dotted line is direct bond, then X^1 = O, S, CO, SO, SO₂, NR¹⁹ (R¹⁹ = H, C₁₋₆ alkyl); when dotted line is none, then X^1 = H, OH, C₁₋₆ alkoxy, amino, C₁₋₆ alkylcarbonyl, etc.; X^2 = O, S, CO, SO, NR¹⁹], etc. Method for screening compounds which inhibit I or induce apoptosis, useful as antitumor agents, involves (1) a step to analyze pharmacophores of test compounds, (2) a step to examine whether or not the pharmacophores agree the above specific pharmacophores, and (3) a step to measure I-inhibiting activity. Thus, IC₅₀ of luteolin on I derived from HL-60 ct.

$$R^{12}$$
 R^{13}
 R^{14}
 R^{18}
 R^{18}

PATENTPAK PDF

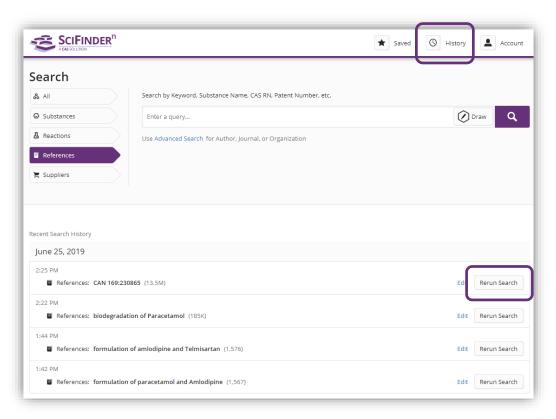
Full Text ▼





Search history

Rerun the resent search.

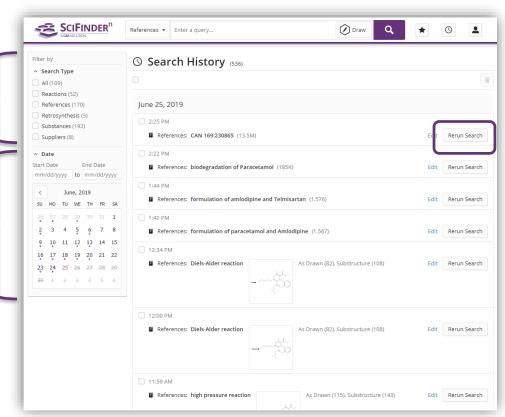




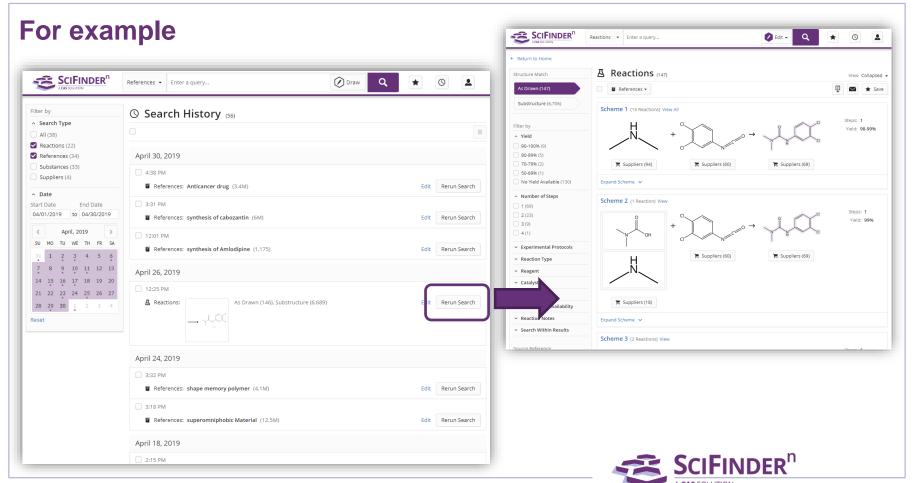
Search history

Handpick a type of search from search history

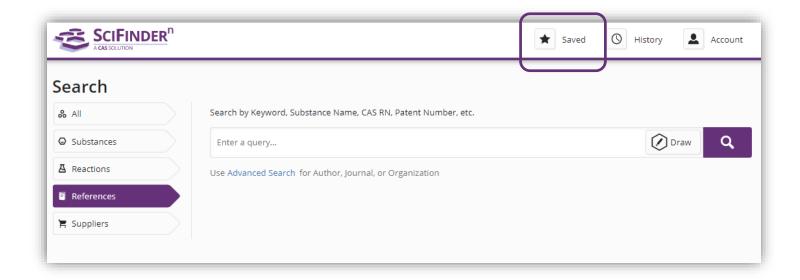
Assign a range of dates or select a particular month to search the history and rerun the search to get all previously viewed data.





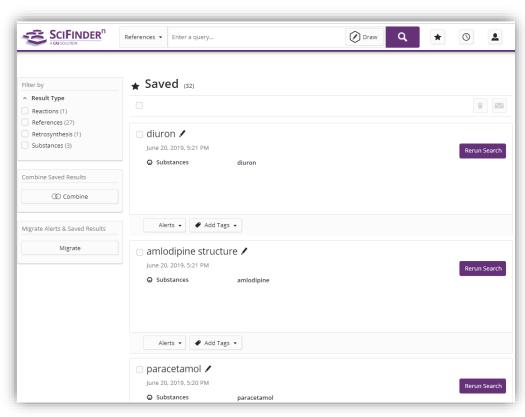


Access all saved answer sets





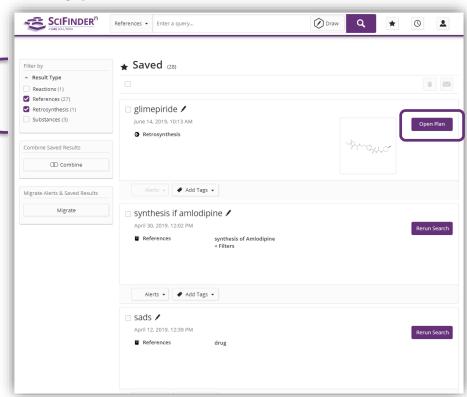
Overview





Search according to result type

Select any result type and rerun the search





Migrate from SciFinder

★ Saved (32) Filter by Result Type Reactions (1) References (27) Retrosynthesis (1) □ diuron Substances (3) lune 20, 2019, 5:21 PM Rerun Search Substances diuron Combine Saved Results O Combine Migrate all saved references, Migrate Alerts & Saved Results substances or Keep Migrate amlodipine structure 🖊 me posted alerts June 20, 2019, 5:21 PM Rerun Search Substances amlodipine from SciFinder if any paracetamol 🖊 June 20, 2019, 5:20 PM Rerun Search Substances paracetamol

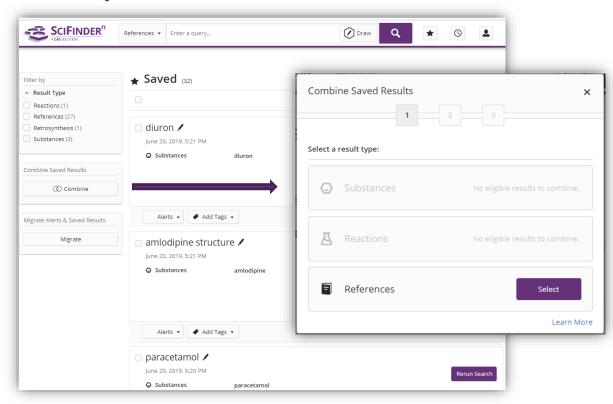
References ▼ Enter a guery...

SCIFINDERⁿ



⊘ Draw

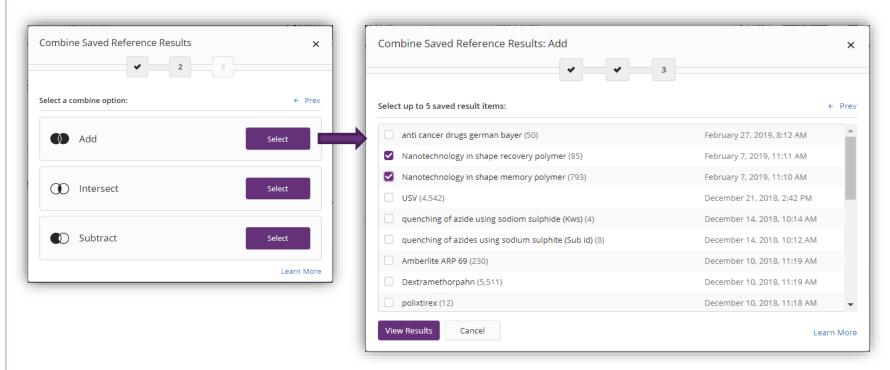
Combine option



Saved reference sets can be combined, intersected or excluded to get expected set of references



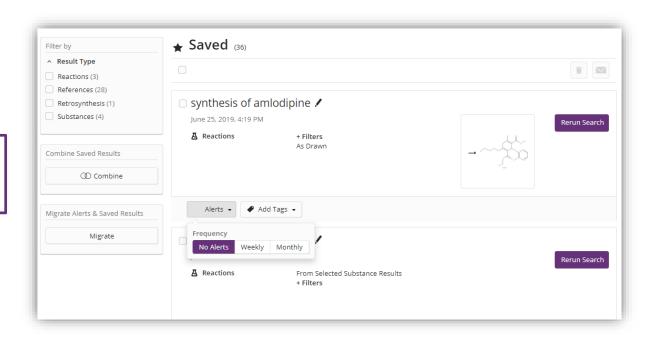
Select sets of references to run desired combine option





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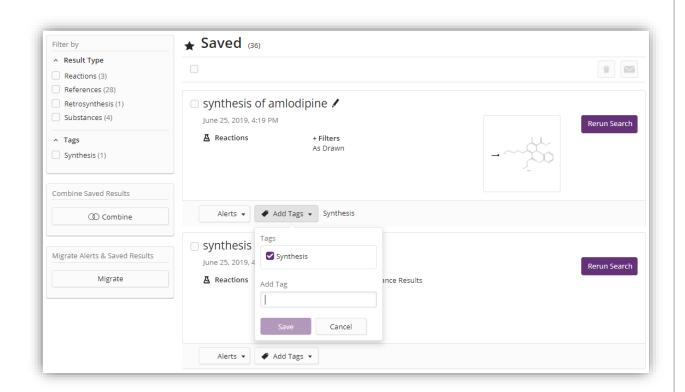
Assign alerts with required frequency to stay updated





Add tags

Add a presaved tag or assign a new tag to saved answer





Protect yourself from all infectious diseases by using these precautions.



Stay home when you are sick



Avoid contact with people who are sick



Get adequate sleep and eat well-balanced meals



Wash hands often with soap and water – 20 seconds or longer



Dry hands with a clean towel or air dry your hands



Avoid touching your eyes, nose, or mouth with unwashed hands or after touching surfaces



Cover your mouth with a tissue or sleeve when coughing or sneezing



Clean and disinfect "high touch" surfaces often



Call before visiting your doctor



Thank You!

For any additional information, please contact us at info@acs-i.org

