朱传娴

客户顾问

hzhu@acs-i.org

如何使用SciFinder获取医药信息

--物质部分

中国药科大学

2018.06.07

SCIFINDER®
A CAS SOLUTION

提纲

- SciFinder中的物质检索
- SciFinder中的Markush检索
- 物质检索疑难分析
- 物质检索上机练习

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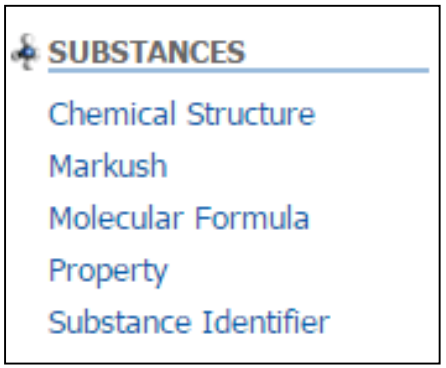
SciFinder检索选项——物质检索

- 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



- 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

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物质检索——标识符检索

提示：
1. 一次最多可输入25个物质。
2. 每行一个物质标识符。

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。

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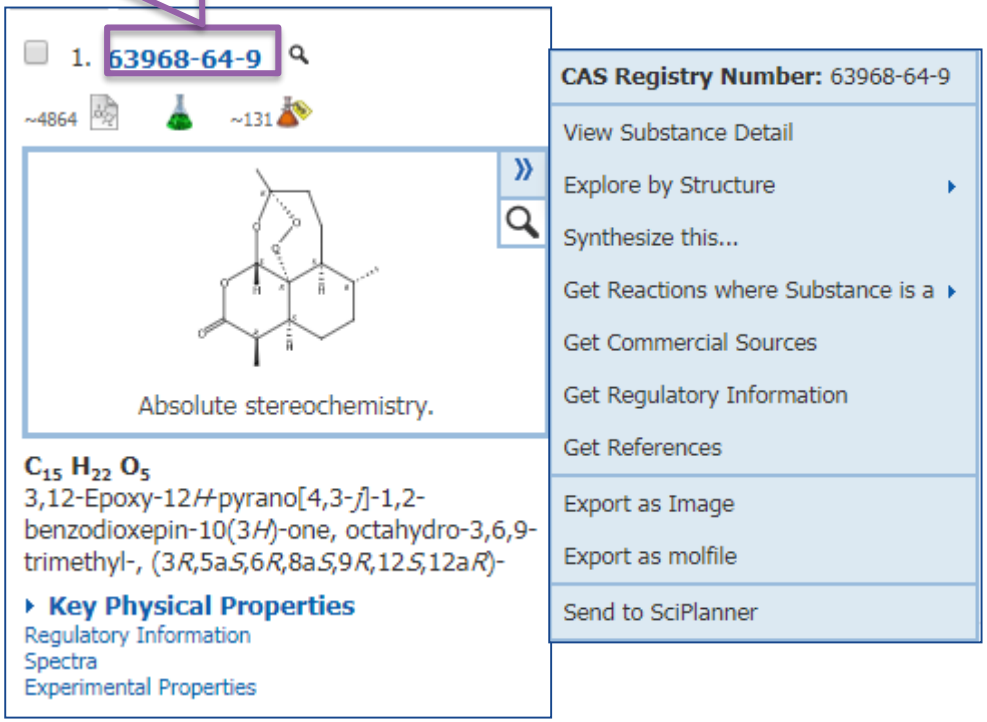
SciFinder中的物质记录

点击CAS RN 获得物质详细信息



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

由物质获得文献，反应，供应商等信息

CAS Registry Number 63968-64

~4,864 ~131

$C_{15}H_{22}O_5$

3,12-Epoxy-12*H*-pyrano[4,3-*j*]-1,2-benzodioxepin-10(3*H*)-one, octahydro-3,6,9-trimethyl-, (3*R*,5a*S*,6*R*,8a*S*,9*R*,12*S*,12a*R*)-

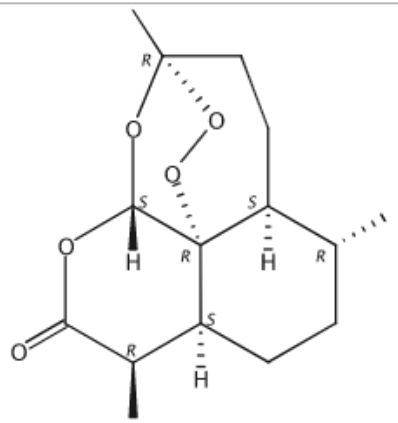
Molecular Weight
282.33

Melting Point (Experimental)
Value: 156-157 °C

Boiling Point (Predicted)
Value: 389.9±42.0 °C | Condition: Press: 760 Torr

Density (Experimental)
Value: 1.300 g/cm3

Other Names
3,12-Epoxy-12*H*-pyrano[4,3-*j*]-1,2-benzodioxepin-10(3*H*)-one, octahydro-3,6,9-trimethyl-, [3*R*-(3α,5aβ,6β,8aβ,9α,12β,12a*R**)]-
(3*R*,5a*S*,6*R*,8a*S*,9*R*,12*S*,12a*R*)-Octahydro-3,6,9-trimethyl-3,12-epoxy-12*H*-pyrano[4,3-*j*]-1,2-benzodioxepin-10(3*H*)-one
(+)-Arteannuin
(+)-Artemisinin
(+)-Qinghaosu
View more...



Absolute stereochemistry.

物质详情

EXPERIMENTAL PROPERTIES

EXPERIMENTAL SPECTRA

实验数据与实验谱图

¹H NMR | ¹³C NMR | Hetero NMR | IR | Mass | Raman | UV and Visible | Additional Spectra

¹³C NMR Properties	Value	Condition	Note
Carbon-13 NMR Spectrum	See spectrum		(3)ACD
Carbon-13 NMR Spectrum	See spectrum		(4)ACD
Carbon-13 NMR Spectrum	See full text	1 of 8	(5)CAS

Notes

(3) ACD: Spectral data were obtained from Advanced Chemistry Development, Inc.

(4) Han, Jaehong; Journal of Natural Products 2001, V64(9), P1201-1205 CAPLUS

(5) Yadav, J. S.; Tetrahedron 2010, V66(11), P2005-2009 CAPLUS

预测数据与预测谱图

PREDICTED PROPERTIES

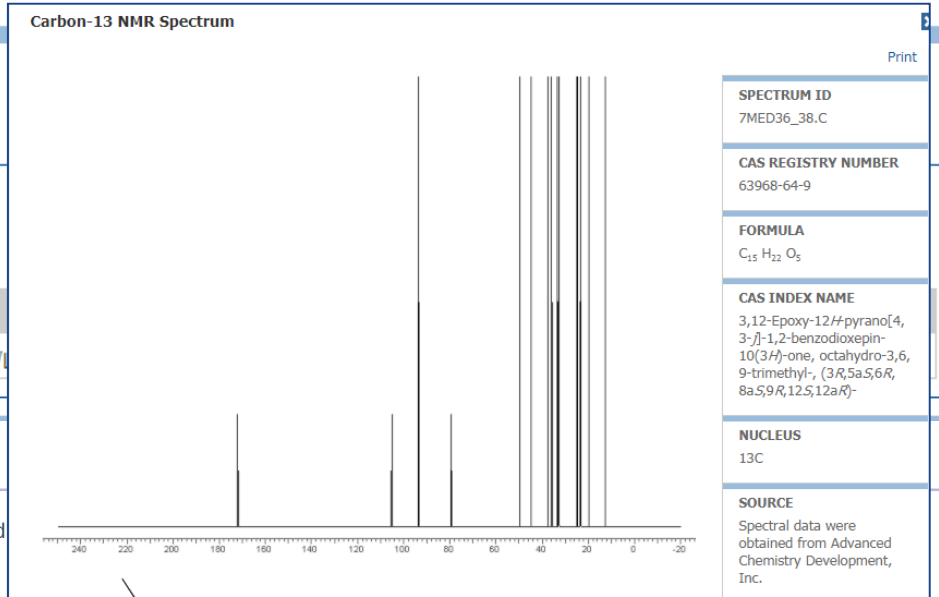
PREDICTED SPECTRA

¹H NMR | ¹³C NMR

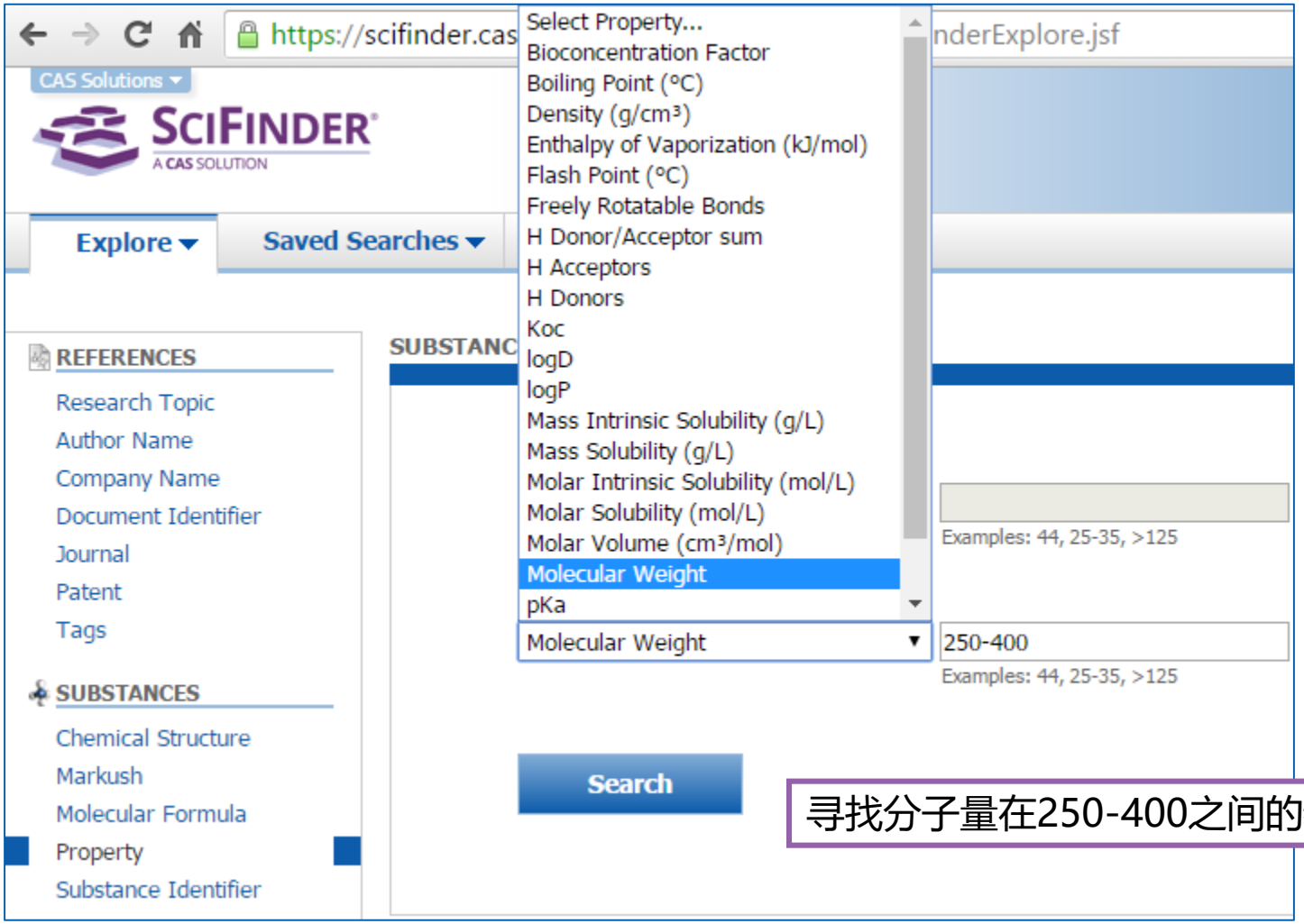
¹H NMR Properties	Value
Proton NMR Spectrum	See spectrum

Notes

(28) Predicted NMR data calculated using Advanced Chemistry Development, Inc. (ACD/L

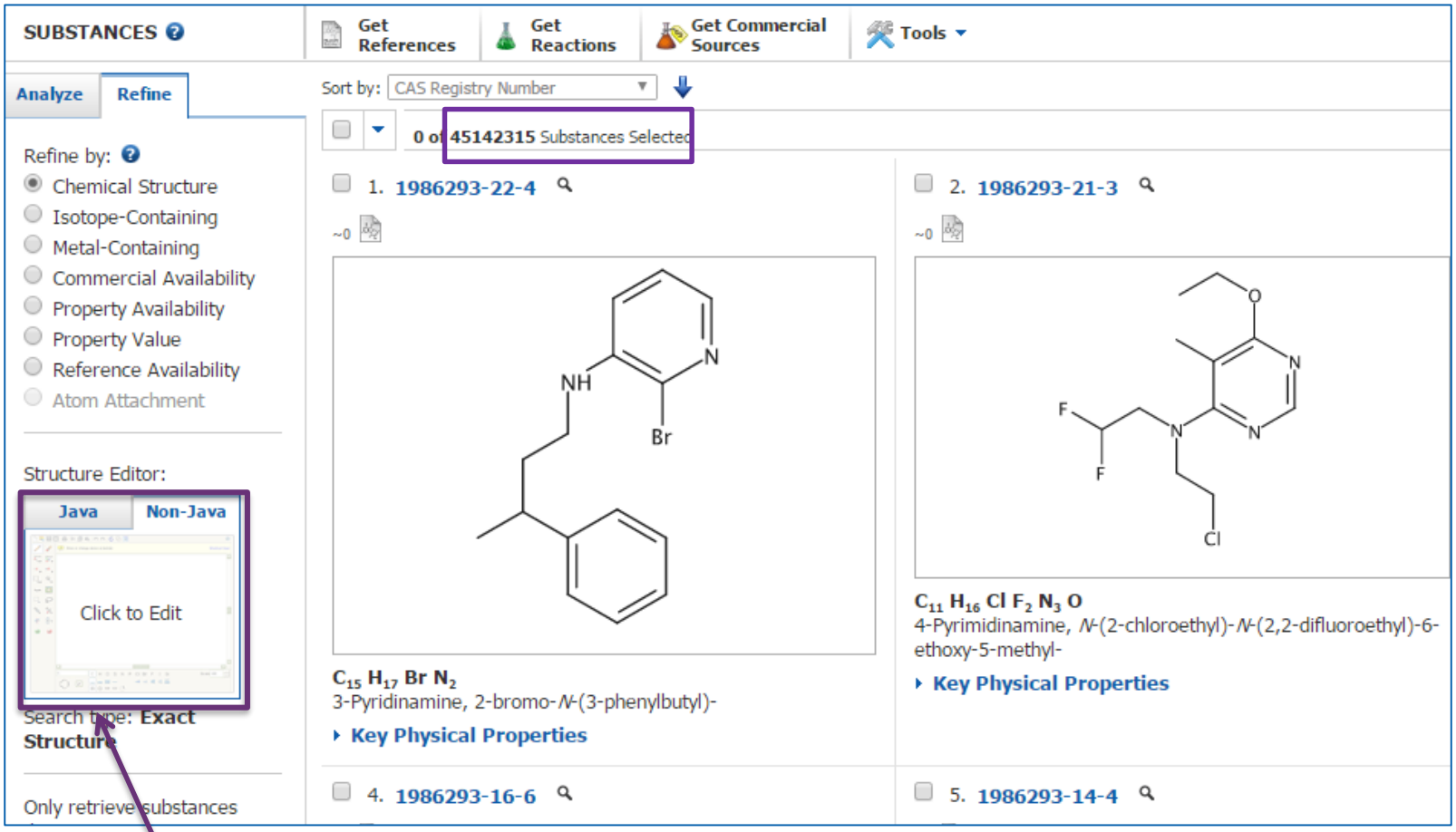


物质检索——Property explore



寻找分子量在250-400之间的物质

物质结果集的筛选——Refine



4500多万个结构，

如何筛选黄酮类物质?

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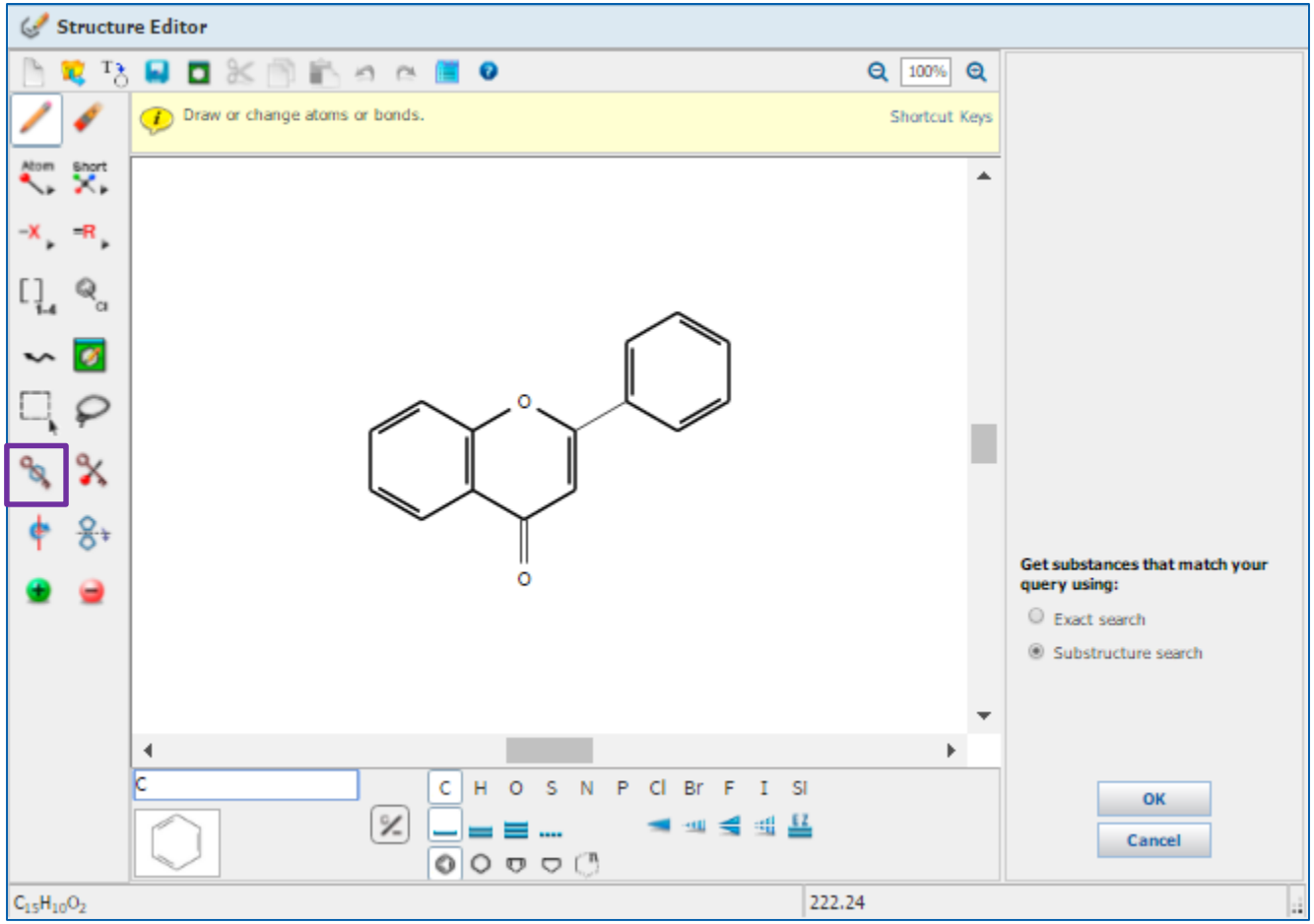
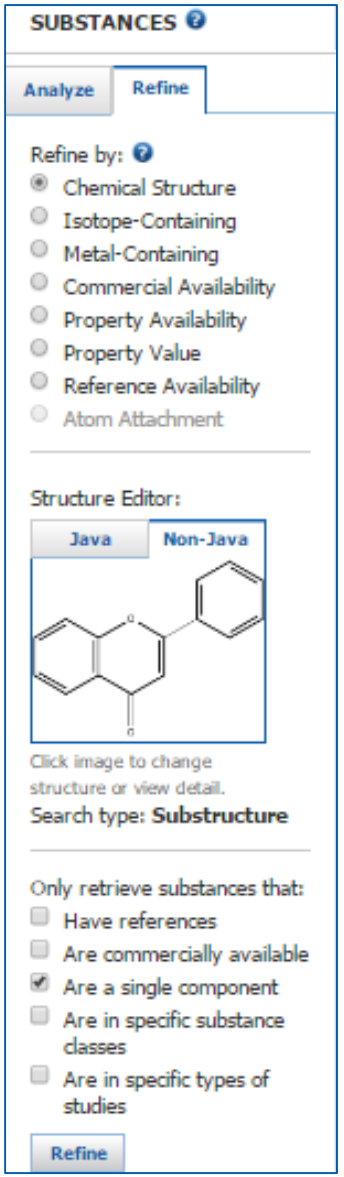
物质结果集的筛选——Refine

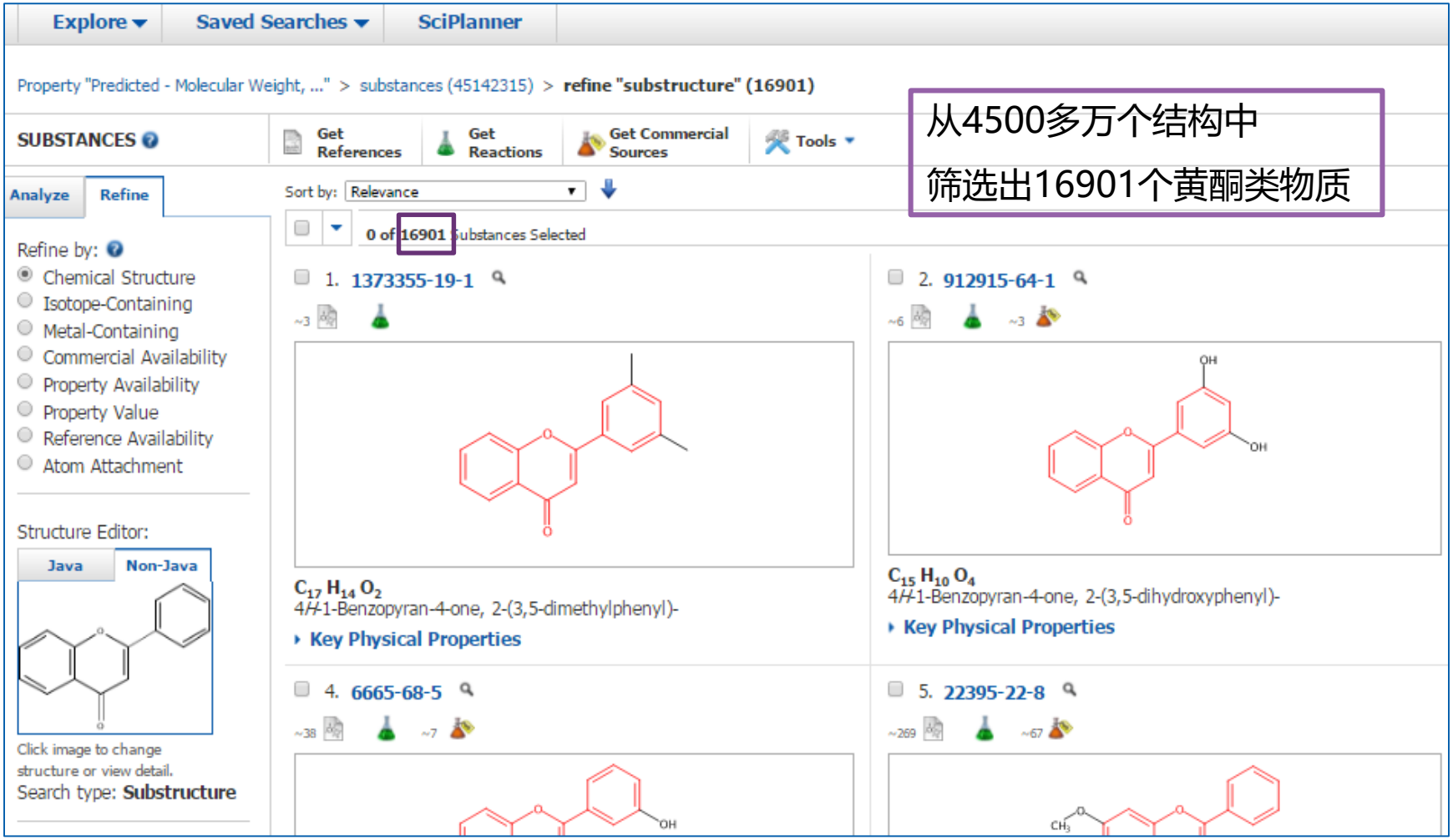




锁环工具：避免在被锁定的环结构上出现新的环结构

SciFinder® A CAS SOLUTION

物质检索结果集



从4500多万个结构中

筛选出16901个黄酮类物质

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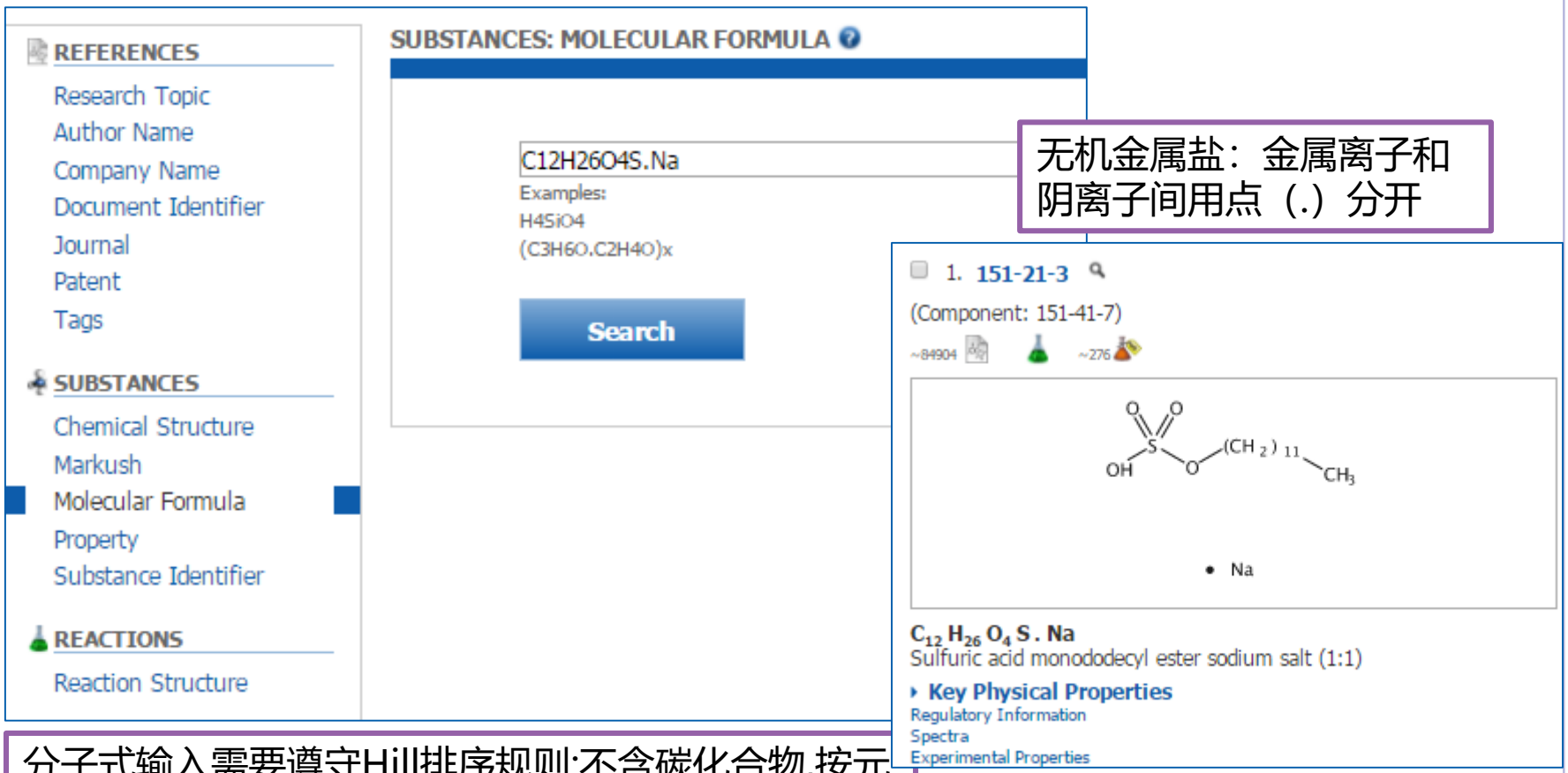
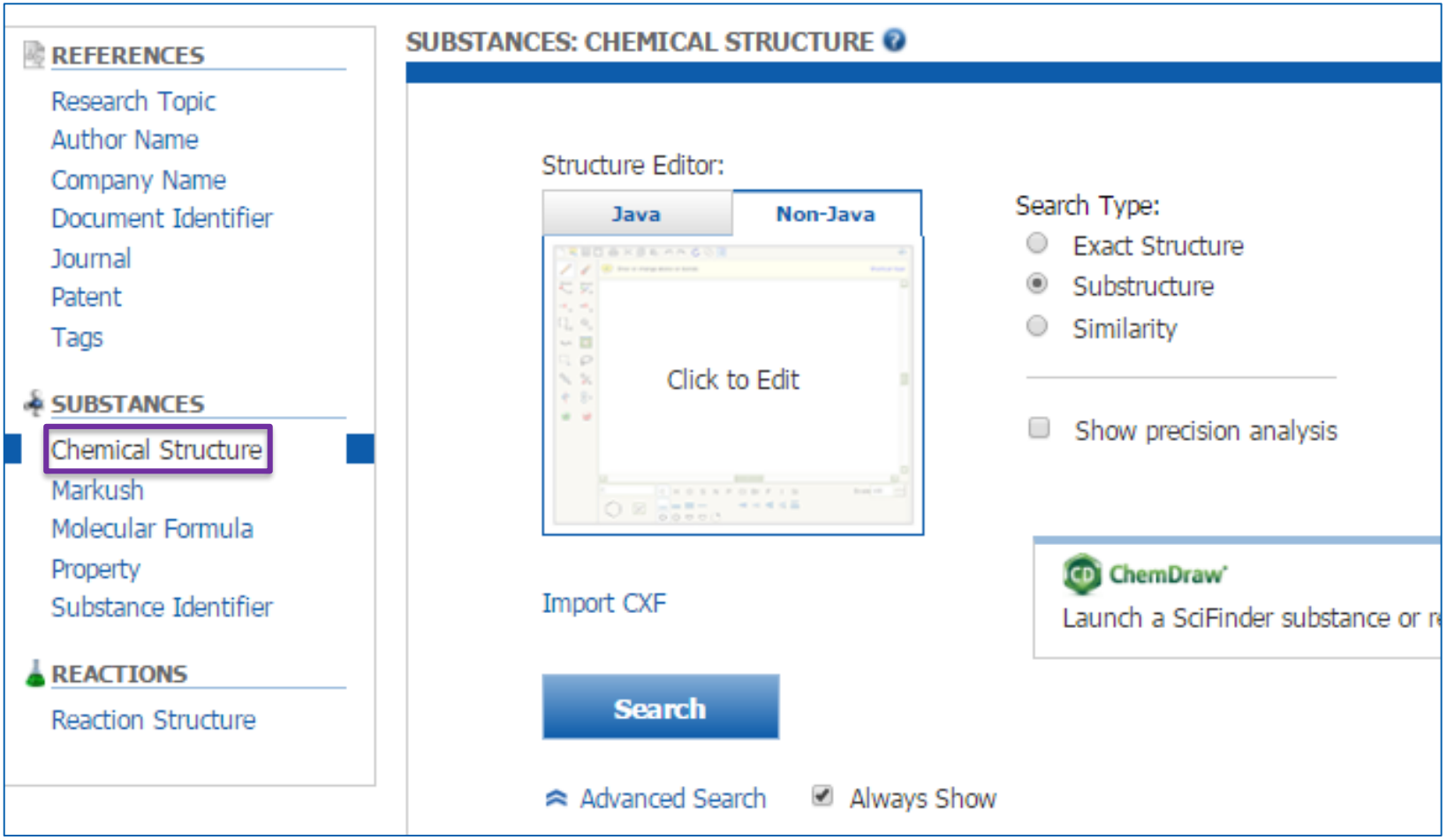
物质检索——分子式



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

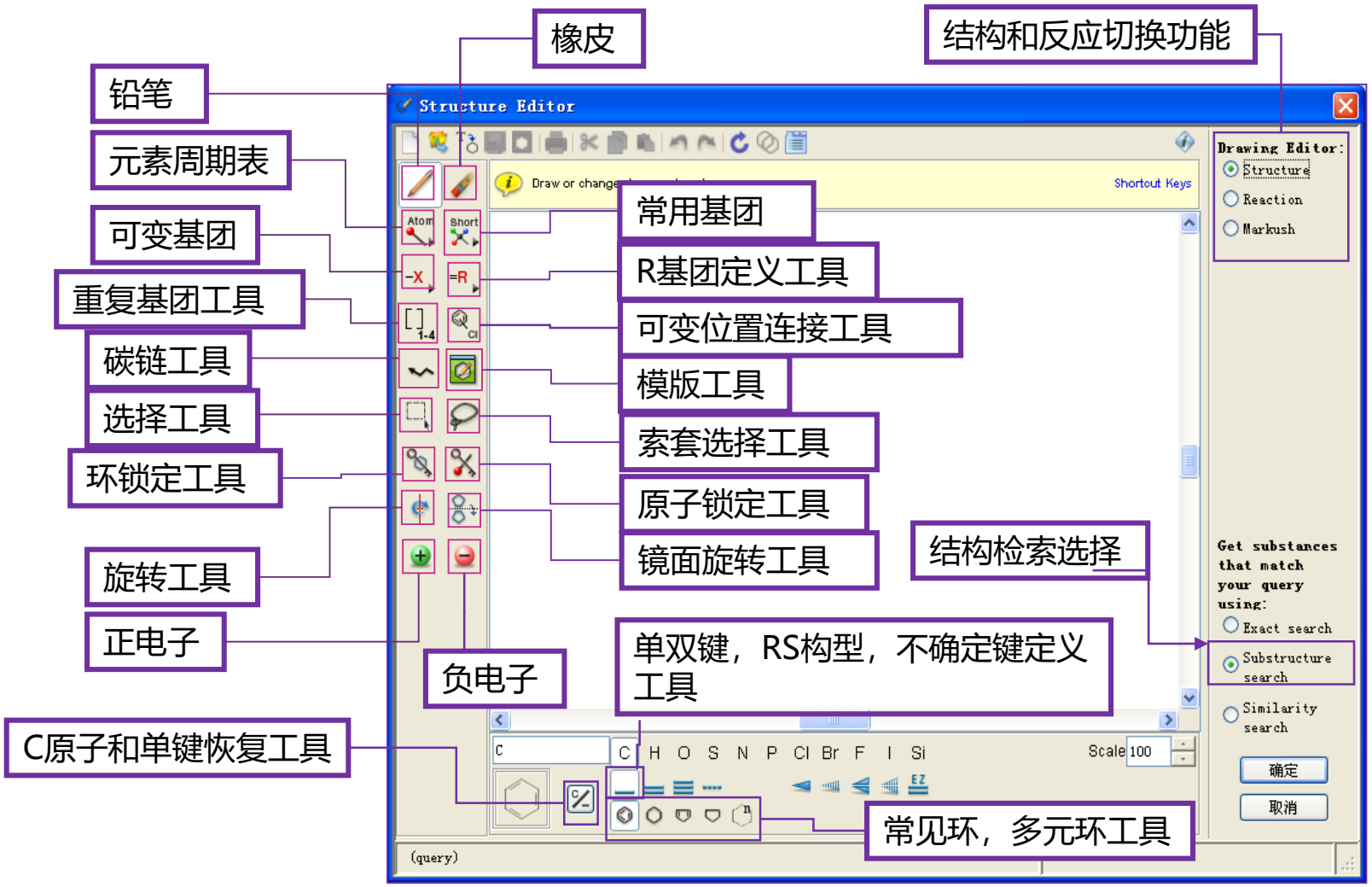
SciFinder® A CAS SOLUTION

物质检索——结构

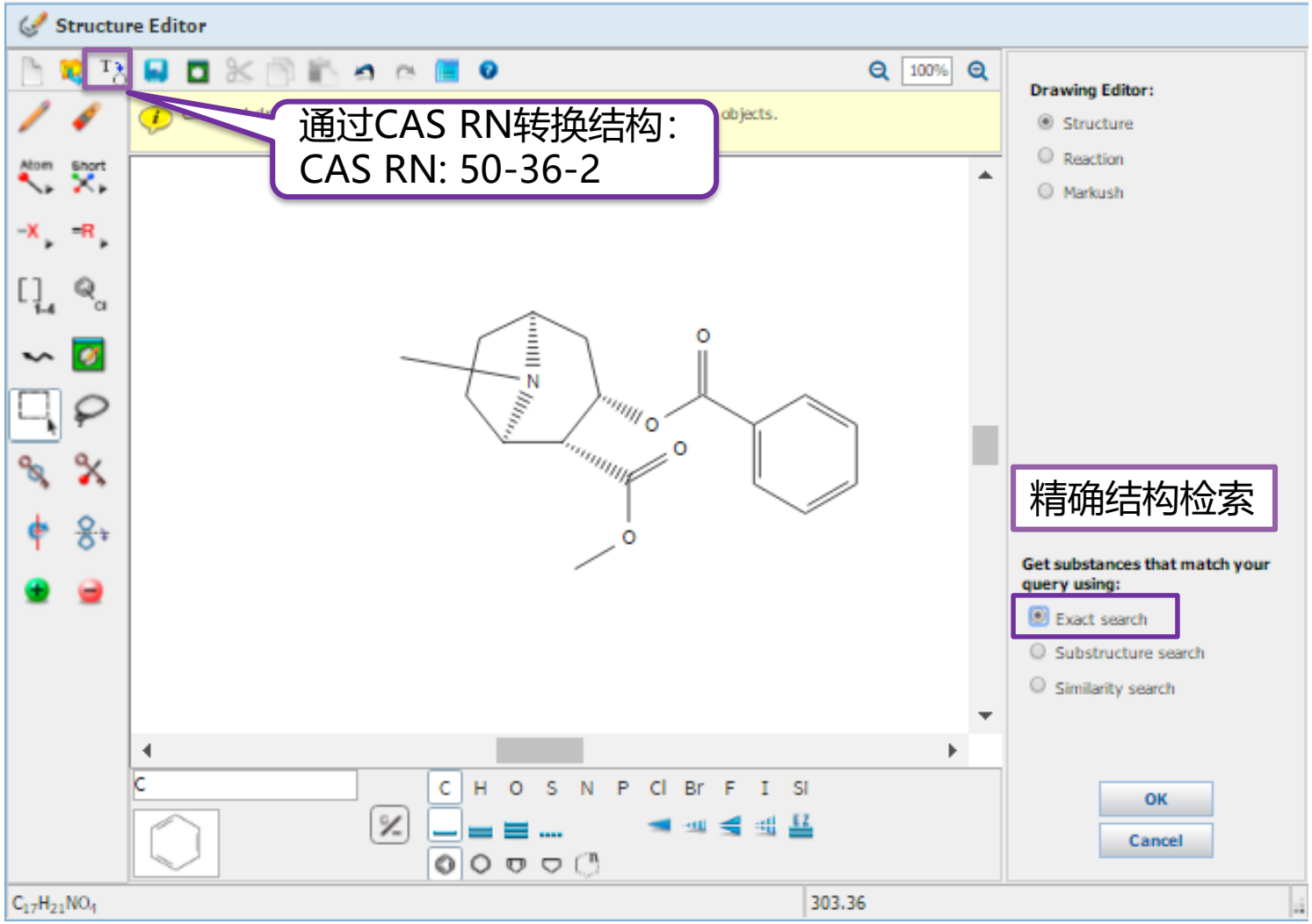


SciFinder® A CAS SOLUTION

物质检索——结构


橡皮
结构和反应切换功能
铅笔
元素周期表
可变基团
重复基团工具
碳链工具
选择工具
环锁定工具
旋转工具
正电子
C原子和单键恢复工具
负电子
常用基团
R基团定义工具
可变位置连接工具
模版工具
索套选择工具
原子锁定工具
镜面旋转工具
结构检索选择
单双键，RS构型，不确定键定义工具
常见环，多元环工具
Structure Editor
Drawing Editor:
Structure
Reaction
Markush
Shortcut Keys
Get substances that match your query using:
Exact search
Substructure search
Similarity search
确定
取消
(query)

物质检索——精确结构检索



SciFinder® A CAS SOLUTION

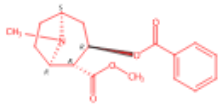
精确结构检索结果

Get References | Get Reactions | Get Commercial Sources | Tools | Create Posted

Sort by: Relevance

0 of 6 Substances Selected

1. 668-19-9



Absolute stereochemistry.

$C_{17}H_{21}NO_4$

8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(benzoyloxy)-8-methyl-, methyl ester, (1*R*,2*R*,3*R*,5*S*)-

Key Physical Properties

Spectra

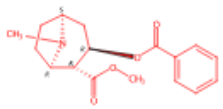
可卡因

2. 114599-38-1

可卡因组合物

668-19-9

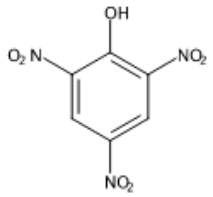
$C_{17}H_{21}NO_4$



Absolute stereochemistry.

88-89-1

$C_6H_3N_3O_7$

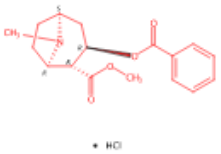


$C_{17}H_{21}NO_4 \cdot C_6H_3N_3O_7$

Allococaine, picrate (6CI)

3. 109496-04-0

(Component: 668-19-9)



Absolute stereochemistry.

$C_{17}H_{21}NO_4 \cdot ClH$

Allococaine, hydrochloride (6CI)

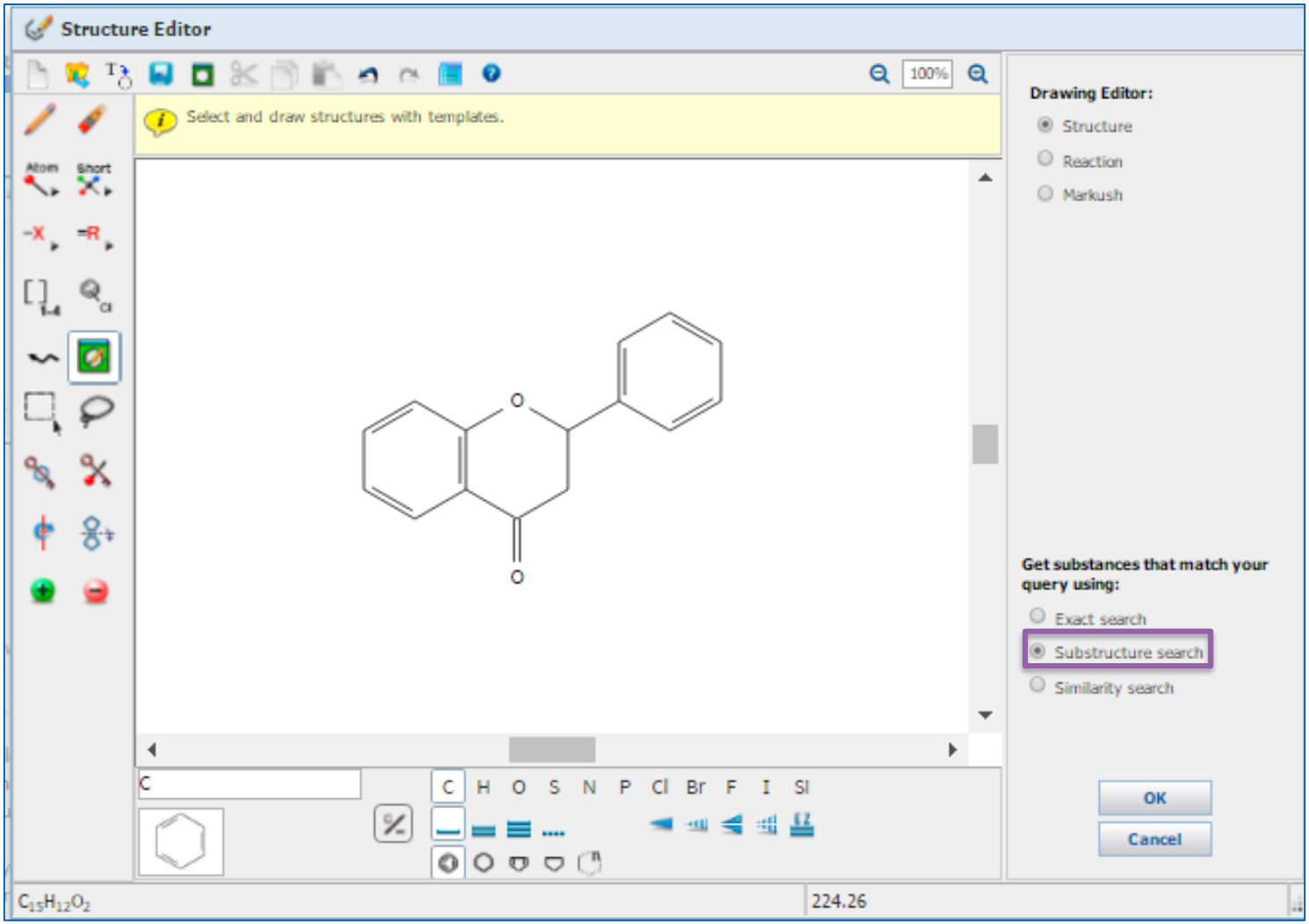
盐酸可卡因

物质检索——精确结构检索

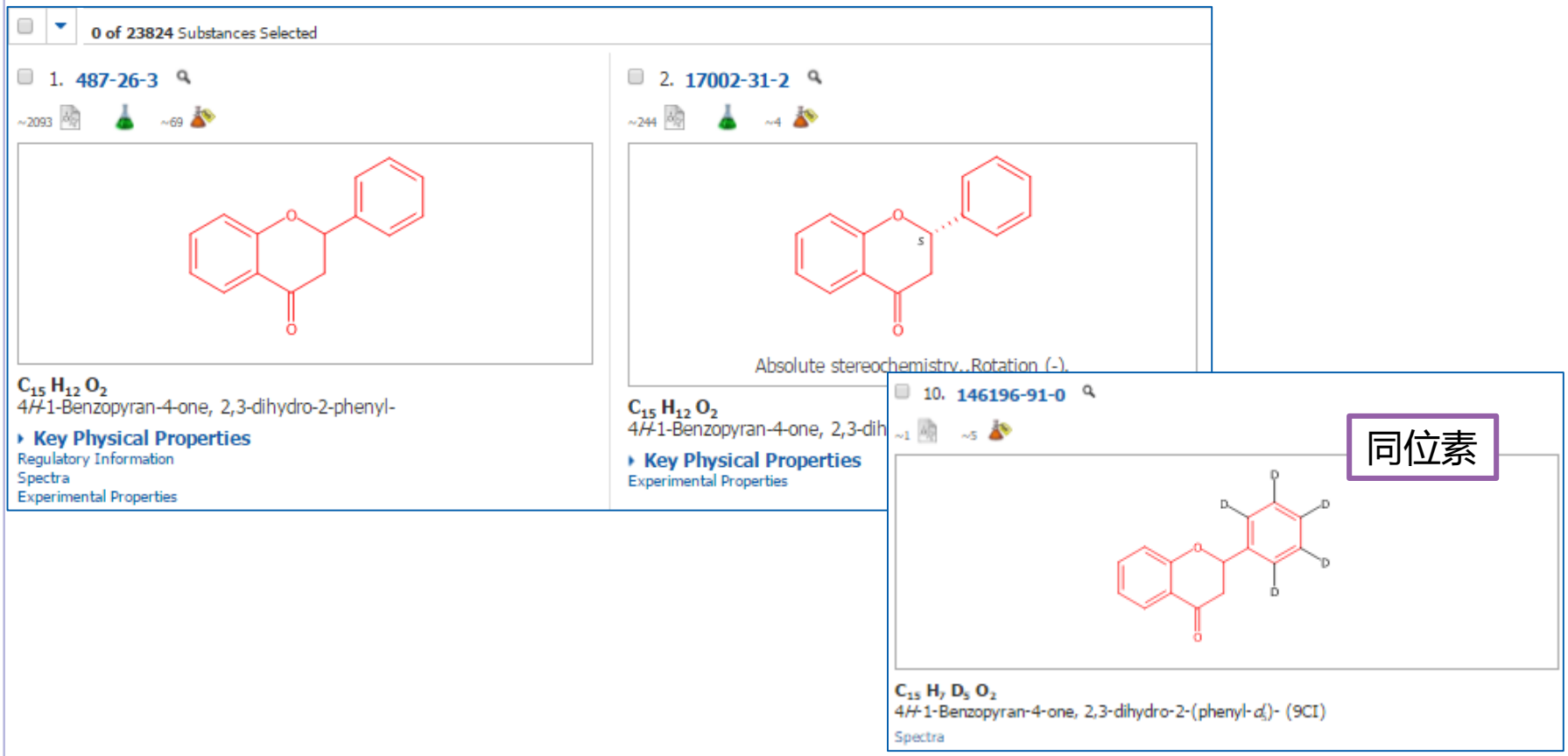
精确结构检索：

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


Structure Editor
100%
Select and draw structures with templates.
Drawing Editor:
Structure
Reaction
Markush
Get substances that match your query using:
Exact search
Substructure search
Similarity search
OK
Cancel
C H O S N P Cl Br F I Si
$C_{15}H_{12}O_2$
224.26

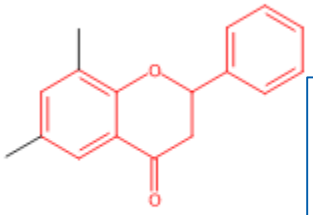
物质检索——亚结构检索


0 of 23824 Substances Selected
1. 487-26-3
~2093
~69
C15 H12 O2
4H-1-Benzopyran-4-one, 2,3-dihydro-2-phenyl-
Key Physical Properties
Regulatory Information
Spectra
Experimental Properties
2. 17002-31-2
~244
~4
Absolute stereochemistry. Rotation (-).
C15 H12 O2
4H-1-Benzopyran-4-one, 2,3-dih
Key Physical Properties
Experimental Properties
10. 146196-91-0
~1
~5
同位素
C15 H7 D5 O2
4H-1-Benzopyran-4-one, 2,3-dihydro-2-(phenyl-d5)- (9CI)
Spectra

亚结构检索结果

281. 123251-10-5

取代物

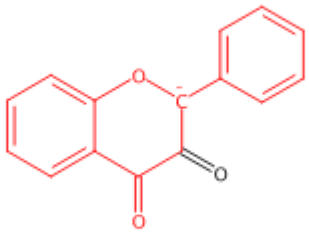


$C_{17}H_{16}O_2$
4*H*-1-Benzopyran-4-one, 2,3-dihydro-6,8-dimethyl

Key Physical Properties
Experimental Properties

295. 780723-19-5

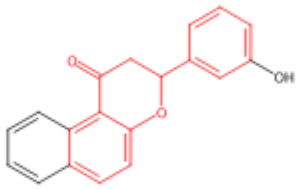
离子



$C_{15}H_9O_3$
2*H*-1-Benzopyran-3,4-dione, 2-phenyl-, ion(1-)

284. 136116-23-9

稠环物质

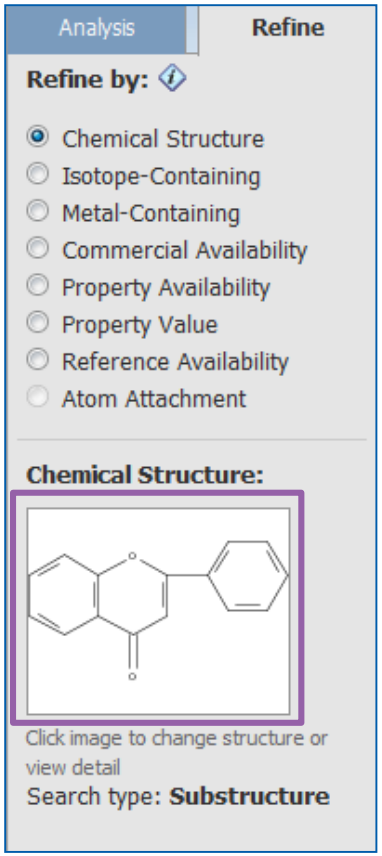


$C_{19}H_{14}O_3$
1*H*-Naphtho[2,1-*b*]pyran-1-one, 2,3-dihydro-3-(3-hydroxyphenyl)-

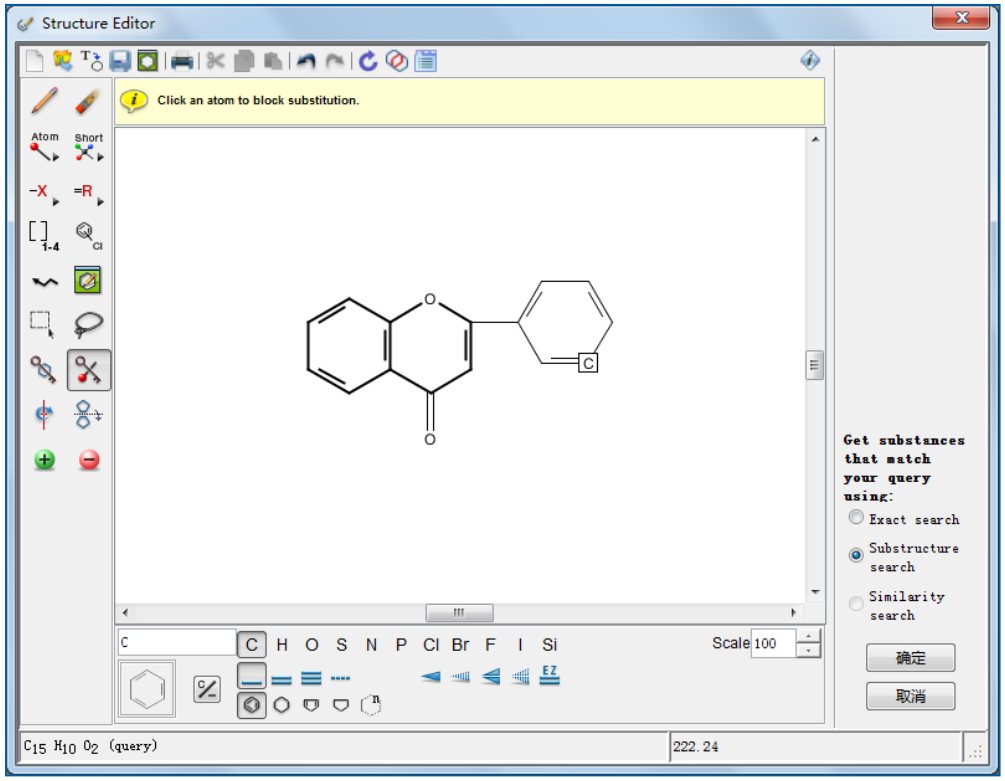
Key Physical Properties

SciFinder® A CAS SOLUTION

亚结构检索结果的限定



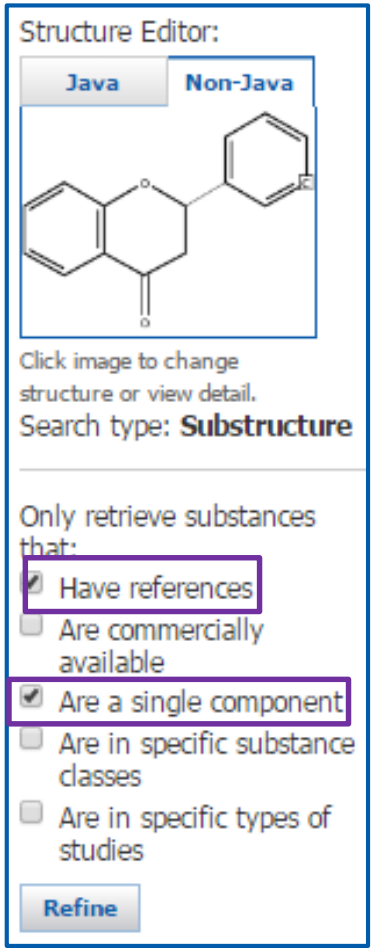
化学结构的再次限定

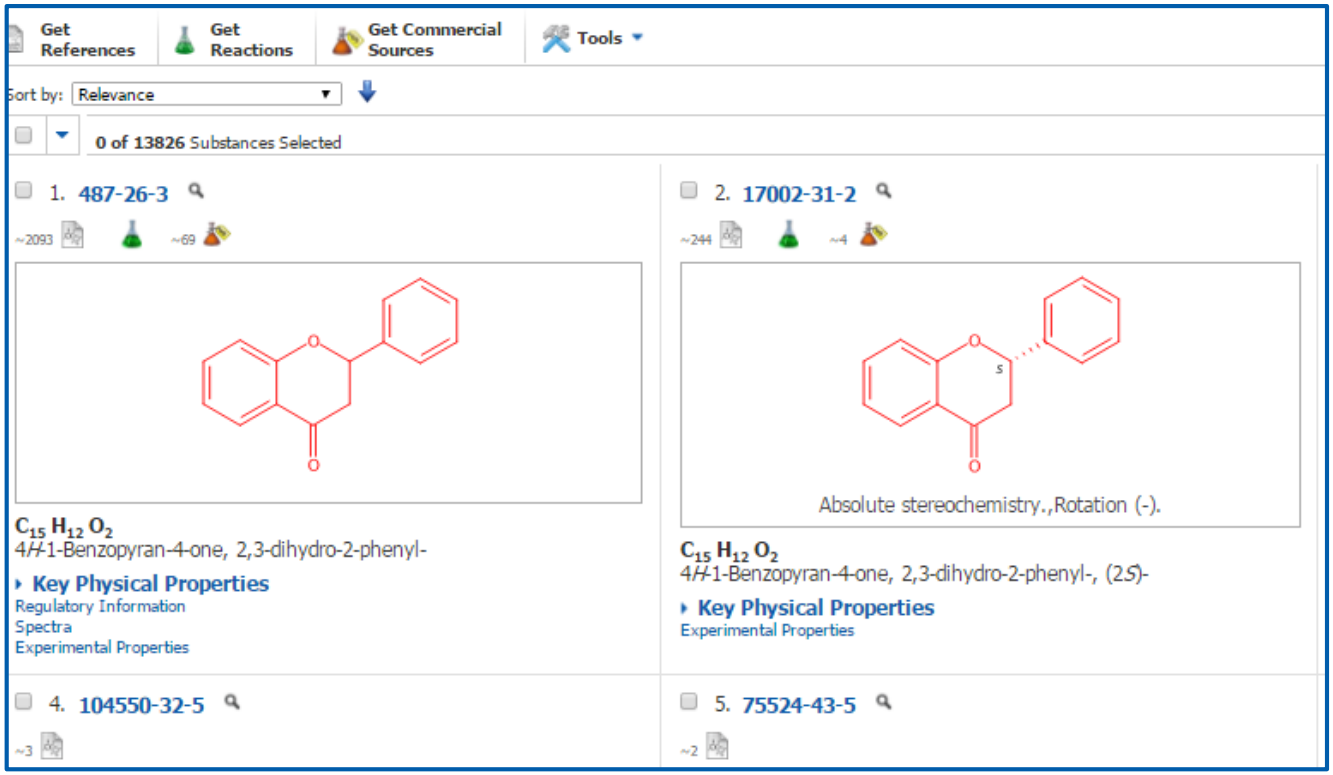


环锁定

原子锁定

亚结构检索结果的限定


Structure Editor:
Java
Non-Java
Click image to change structure or view detail.
Search type: Substructure
Only retrieve substances that:
Have references
Are commercially available
Are a single component
Are in specific substance classes
Are in specific types of studies
Refine

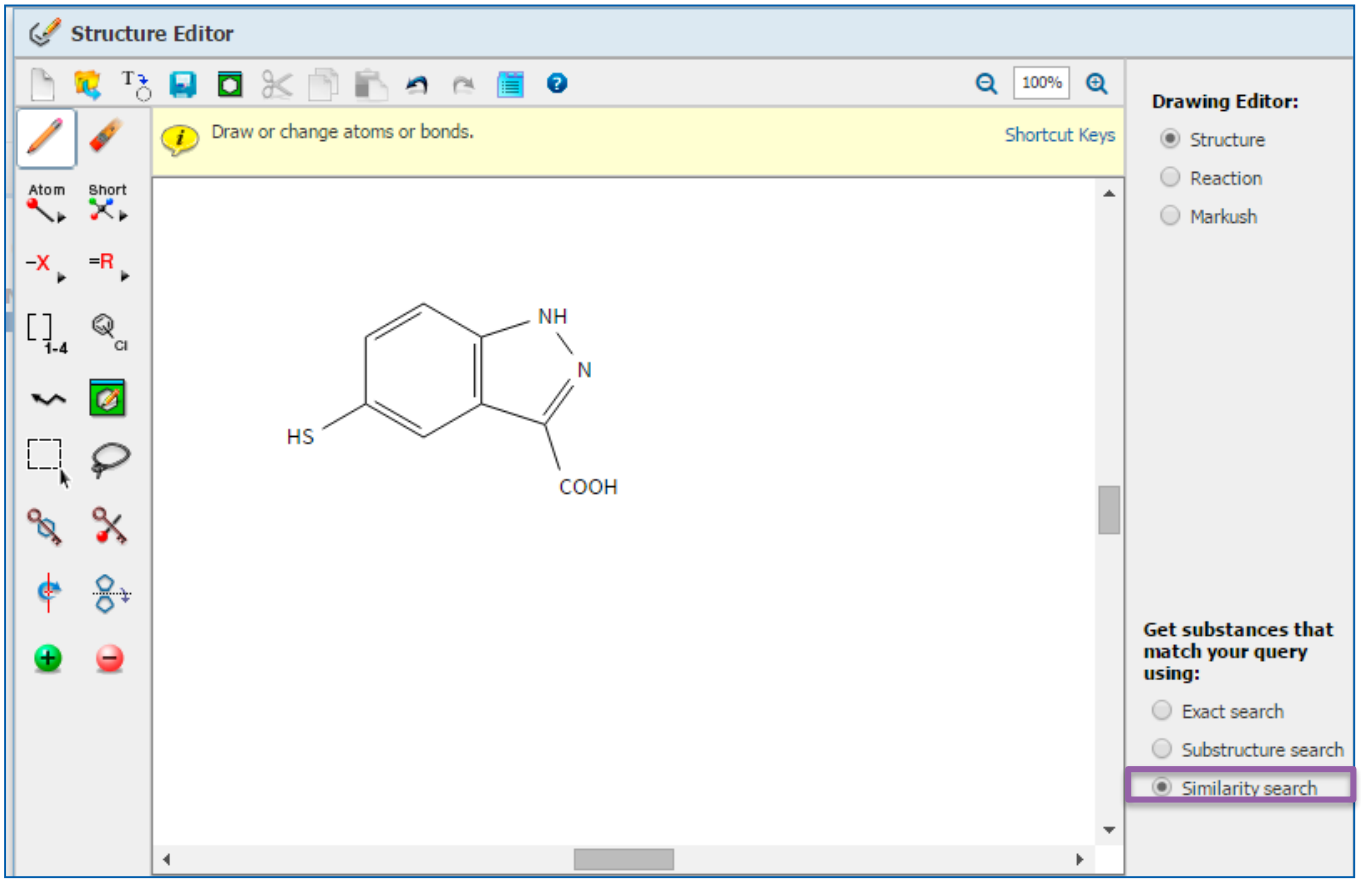

Get References
Get Reactions
Get Commercial Sources
Tools
Sort by: Relevance
0 of 13826 Substances Selected
1. 487-26-3
2. 17002-31-2
Absolute stereochemistry.,Rotation (-).
C15 H12 O2
4H-1-Benzopyran-4-one, 2,3-dihydro-2-phenyl-
Key Physical Properties
Regulatory Information
Spectra
Experimental Properties
C15 H12 O2
4H-1-Benzopyran-4-one, 2,3-dihydro-2-phenyl-, (2S)-
Key Physical Properties
Experimental Properties
4. 104550-32-5
5. 75524-43-5

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


Structure Editor
100%
Draw or change atoms or bonds.
Shortcut Keys
Atom
Short
-X
=R
1-4
Cl
NH
N
HS
COOH
Drawing Editor:
Structure
Reaction
Markush
Get substances that match your query using:
Exact search
Substructure search
Similarity search

相似结构检索结果

Select All Deselect All

0 of 6 Similarity Candidates Selected	Substances
≥ 99 (most similar)	0
95-98	0
90-94	0
85-89	11
80-84	34
75-79	84
70-74	267
65-69	696
0-64 (least similar)	1818

Get Substances

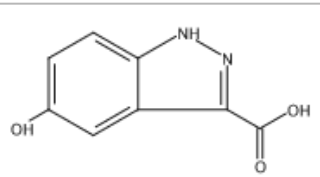
相似度越高，结构越相似

Score: 88

1. **885518-94-5**

~1 ~35

取代基变化



$C_8H_6N_2O_3$

1*H*-Indazole-3-carboxylic acid, 5-hydroxy-

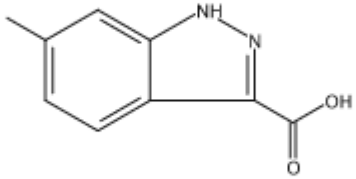
Key Physical Properties

Score: 86

5. **858227-12-0**

~7 ~41

取代基位置变化



$C_9H_8N_2O_2$

1*H*-Indazole-3-carboxylic acid, 6-methyl-

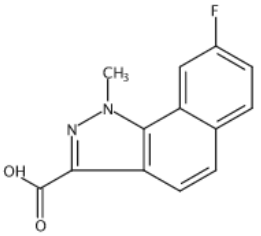
Key Physical Properties

Score: 65

541. **1100422-**

~1

母体结构变化



$C_{13}H_9FN_2O_2$

1*H*-Benz[*g*]indazole-3-carboxylic acid, 8-fluoro-1-methyl-

Key Physical Properties

SciFinder® A CAS SOLUTION

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

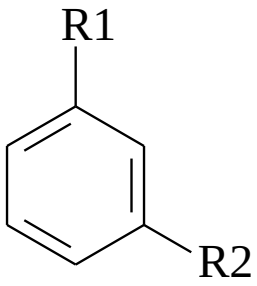
- SciFinder中的物质检索
- SciFinder中的Markush检索
- 物质检索疑难分析
- 物质检索上机练习

SCIFINDER®
A CAS SOLUTION

Markush检索

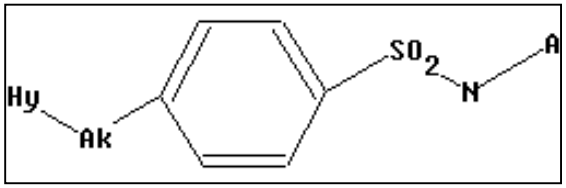
- 具体物质[Specific Substance]：
  — 以具体化学结构陈述的特定物质，会被分配CAS RN

- 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
  — 专利中所陈述的预测物质，不会被分配CAS RN
  — Markush检索，能检索到通过结构检索检不到的专利

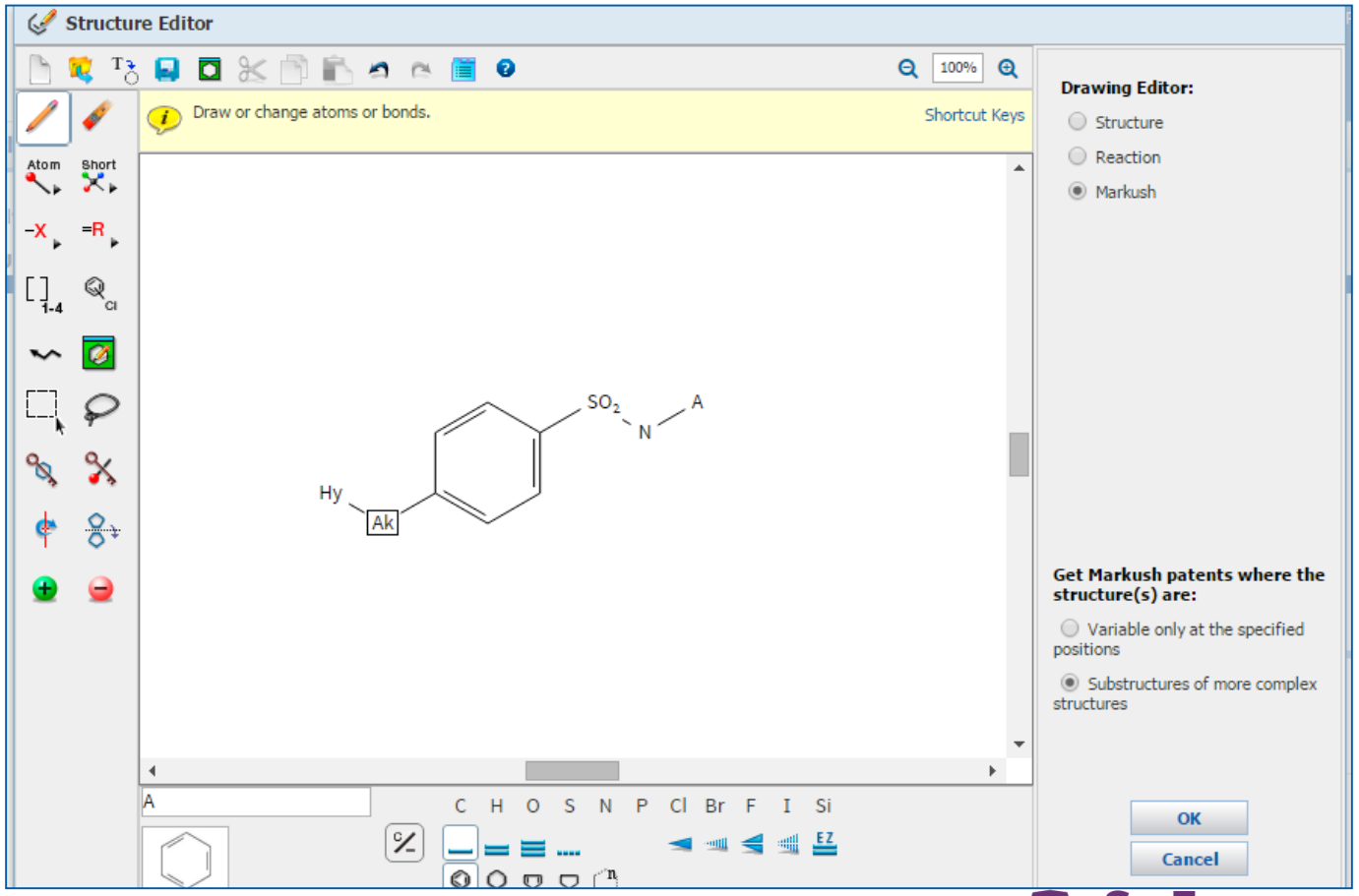


R1 = H, Br, Cl, I

R2 = Br, Cl, I, —CH_2–halogen, —CH(–halogen)–CH_3,



可用SciFinder中的Markush检索查看专利中化合物结构保护范围。



Markush检索

SciFinder A CAS SOLUTION

Welcome Helen Zhu

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Markush substructure > **references (1969)** > Compounds and methods for anti...

REFERENCES | Get Substances | Get Reactions | Get Related Citations ▾ | Tools ▾ | Create Keep Me Posted Alert | Send to SciPlanner

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Analyze by: Document Type ▾

Patent 1969

Journal 1

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0 of 1969 References Selected Page: 1 of 99

1. **Compounds and methods for anticoagulation therapy**

Quick View PATENTPAK ▾

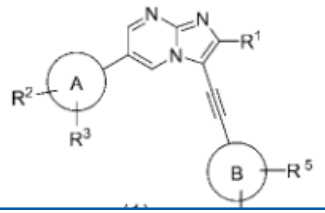
By Allende Rodriguez, Mikel; Hermida Santos, Jose; Montes Diaz, Ramon; Oyarzabal Santamarina, Julen
From PCT Int. Appl. (2016), WO 2016120432 A1 20160804. | Language: English, Database: CAPLUS

The invention relates to certain compds. that are inducers of Heat shock 70 kDa protein 1A/1B (HSPA1A/B) and their use for anticoagulation therapy; and to a method for anticoagulation therapy that comprises the administration of one of these inducer compds. It has been here proved that induction of Heat shock 70 kDa protein 1A/1B by administration of one of these inducer compds. has antithrombotic effects without accelerating or altering bleeding time.

2. **Preparation of new imidazopyrimidine derivatives as negative allosteric modulators of metabotropic glutamate receptor subtype 2 (mGlu2 receptor)**

Quick View PATENTPAK ▾

By Urashima, Kuniko; Tojo, Kengo; Koike, Shoko; Masumoto, Shuji
From Jpn. Kokai Tokkyo Koho (2016), JP 2016132660 A 20160725. | Language: Japanese, Database: CAPLUS



The title imidazo[1,2-a]pyrimidine derivs. I [R^1 = H or halogen; ring A Ph or pyridyl; R^2, R^3 (same or different) = hydrogen, halogen, C_{1-4} alkyl or C_{1-4} alkoxy each optionally substituted with 1-5 halogen atoms; or in case where R^2 and R^3 are at the adjacent substitution position, R^2 and R^3 together with ring A form C_{5-8} carbocyclic ring (optionally substituted with 1-5 halogen or 1-2 hydroxy group) or 5- or 6-membered satd. heterocyclic ring; ring B = Ph or pyridyl; R^4, R^5 (same or different) = H, halogen, hydroxy, amino, -C(O)OR^a, -C(O)NR^{a}R^b, SO_3H, $SO_2NR^aR^b$, SO_2R^b, or $NR^aSO_2R^b$; R^a, R^b (same...

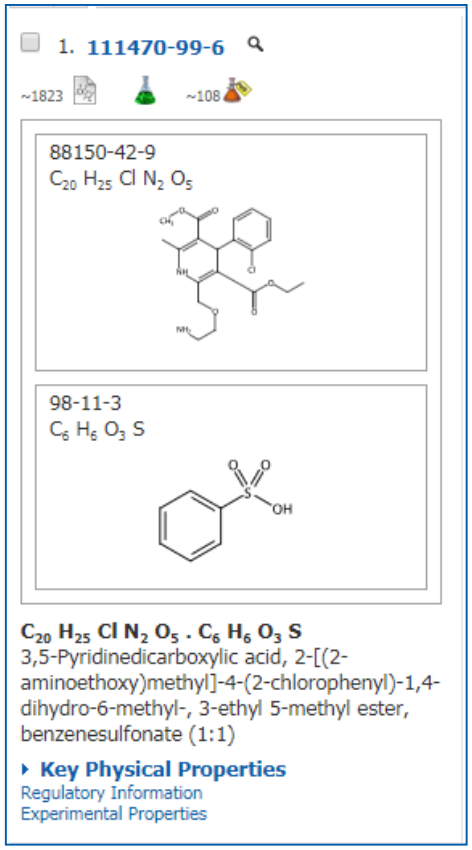
全部是专利

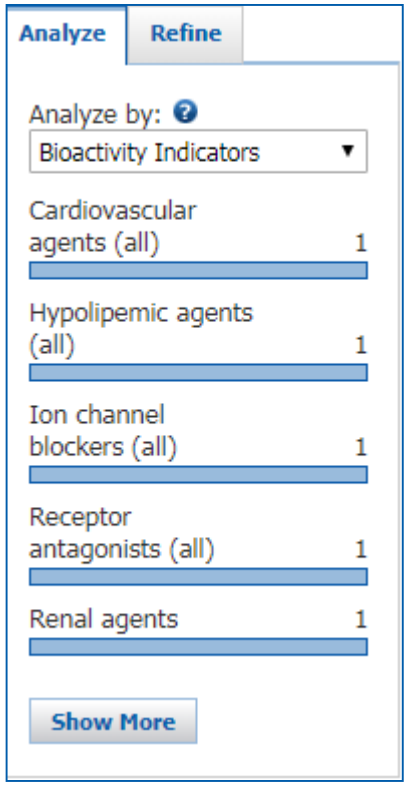
SciFinder A CAS SOLUTION

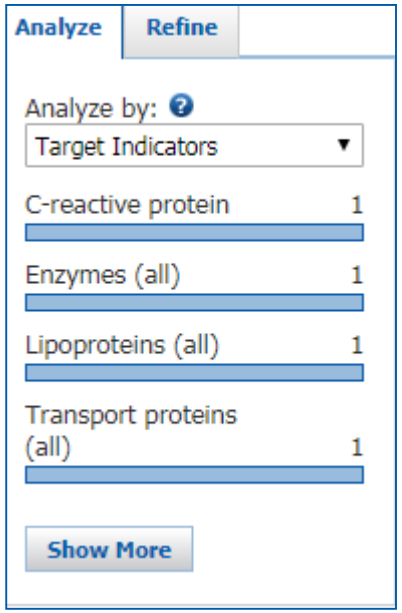
提纲

- SciFinder中的物质检索
- SciFinder中的Markush检索
- 物质检索疑难分析
- 物质检索上机练习

查看物质的生物活性和靶点信息







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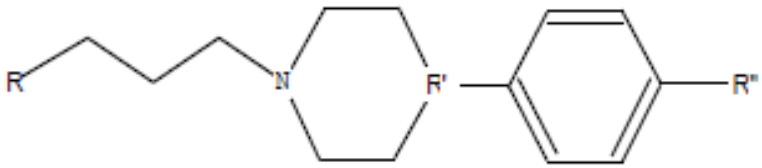
检索具有相同结构特征的物质

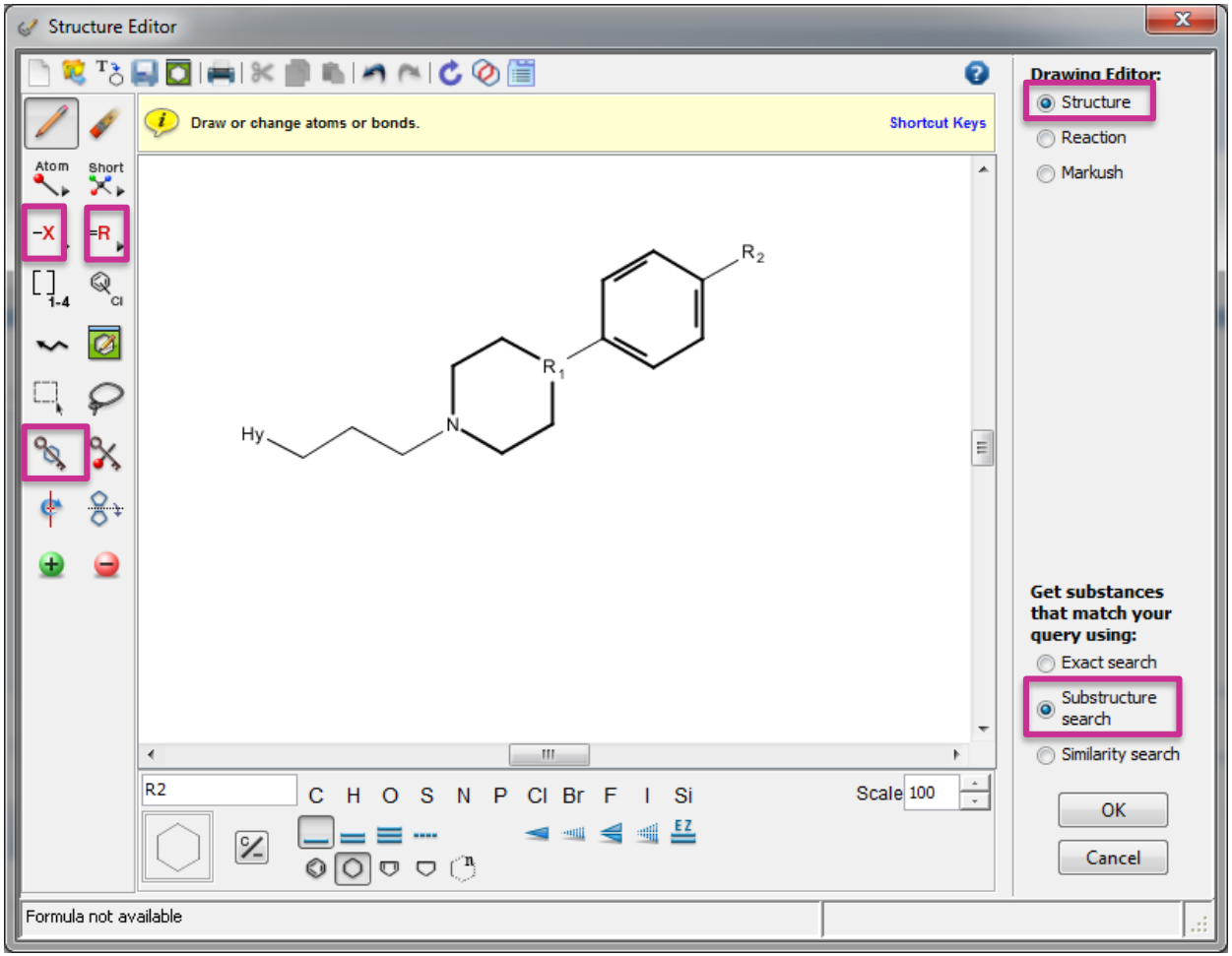
查询报道具有如下结构特征专利文献:



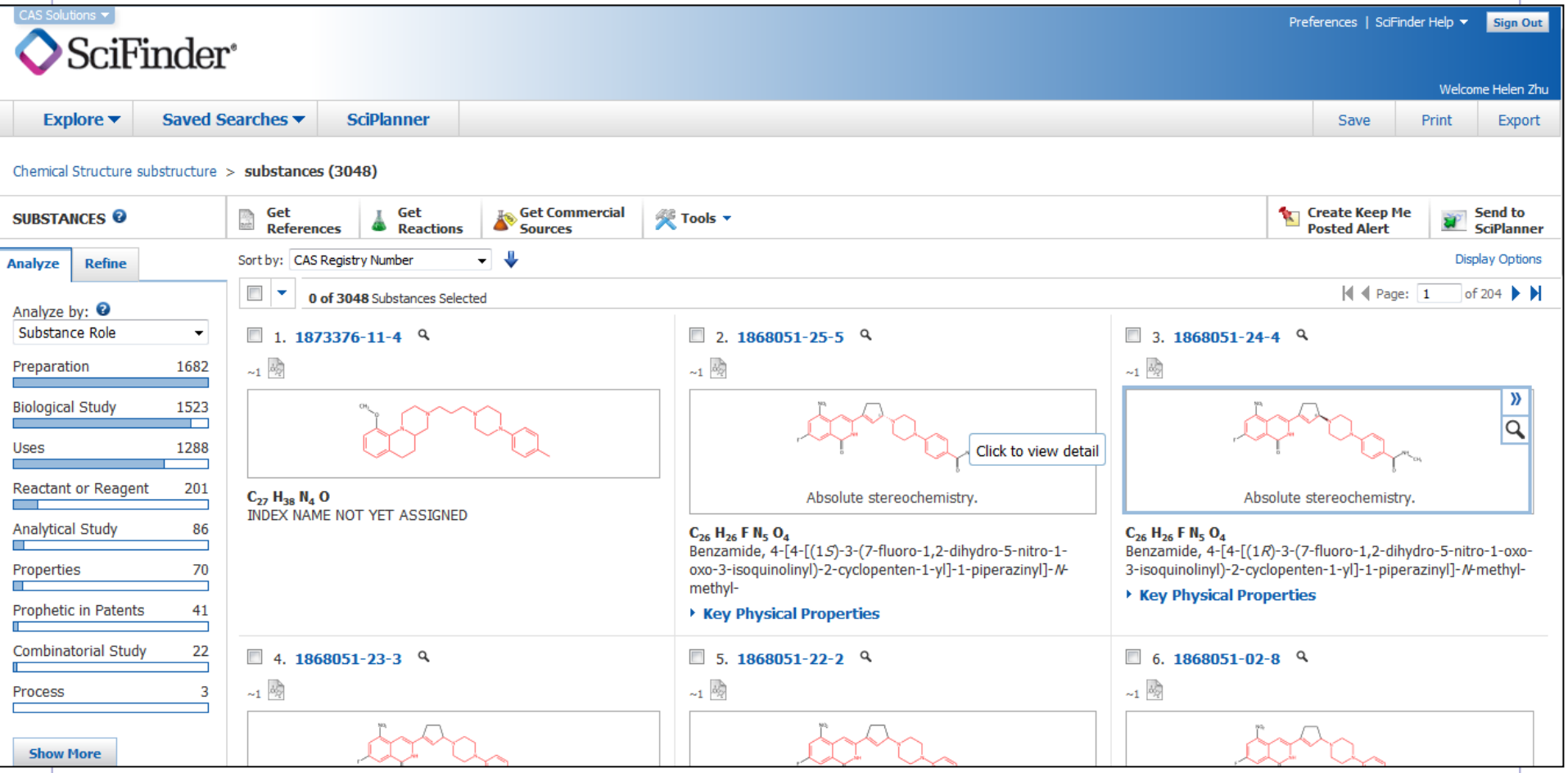
要求:

- R = 任意杂环
- R' = C, N, P
- R'' = C,N
- 6 圆环均为单环
- 价键不饱和的地方均允许有取代

检索具有相同结构特征的物质



检索具有相同结构特征的物质

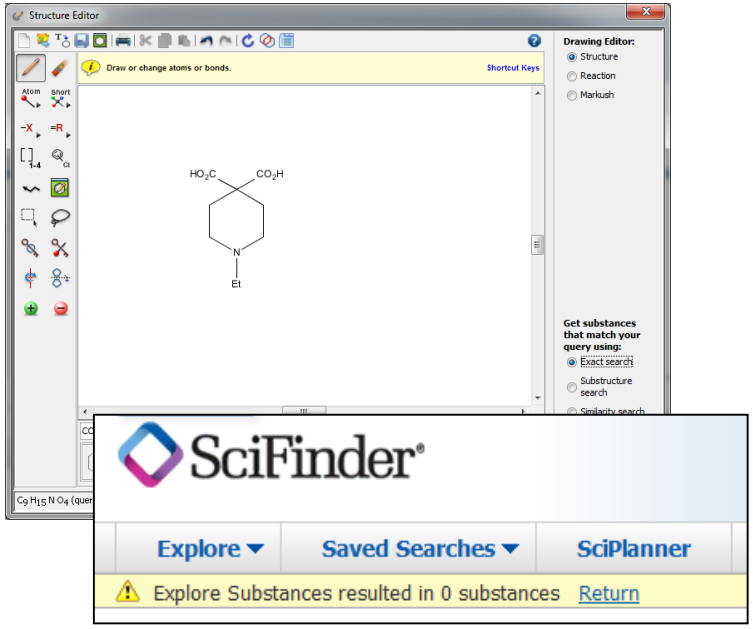


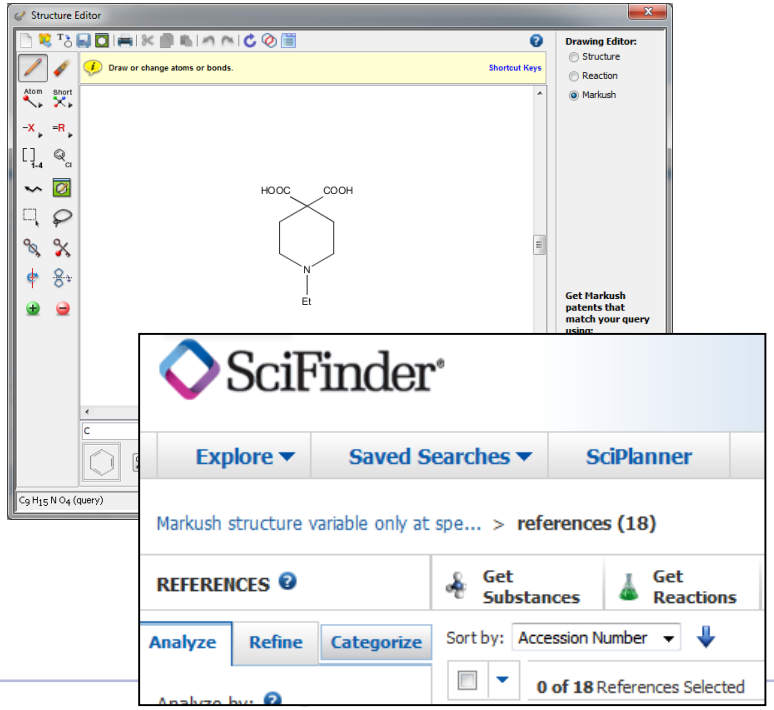
如何判断结构的新颖型

新颖性：是否存在？是否能申请专利？

SciFinder相关物质库：Registry和Marpat

检索方法：物质检索？Markush检索？



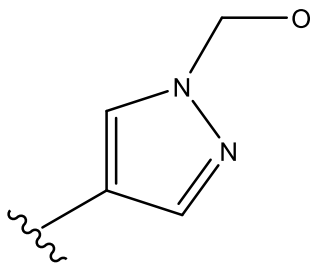


如何判断结构的新颖型

- SciFinder中的Markush检索仅仅只做初步的专利评估
- 尽量不要画具体结构进行检索
- 如果Markush检索结果为零，请对结构进行适当的扩展后再检索。
- 检索结果仍然为零，不代表一定没有被其他专利保护

SCIFINDER® A CAS SOLUTION

如何判断结构的新颖型



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⚠ Explore References resulted in 0 references Return

Markush substructure > **references (0)**

REFERENCES

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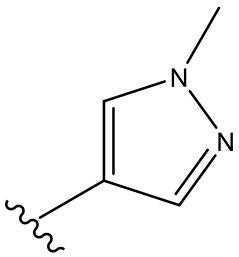
Analyze by:
No references available



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Markush substructure > **references (1)**

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Analyze by: Author Name ▾

Chi Jiangtao 1
Dong Qing 1
Tu Wangyang 1
Xu Guoji 1
Zhang Haitang 1

0 of 1 Reference Selected

1. **Preparation of imidazo[5,1-α]isoindole derivatives useful for the treatment of diseasess related to IDO-mediated tryptophan metabolic pathways**

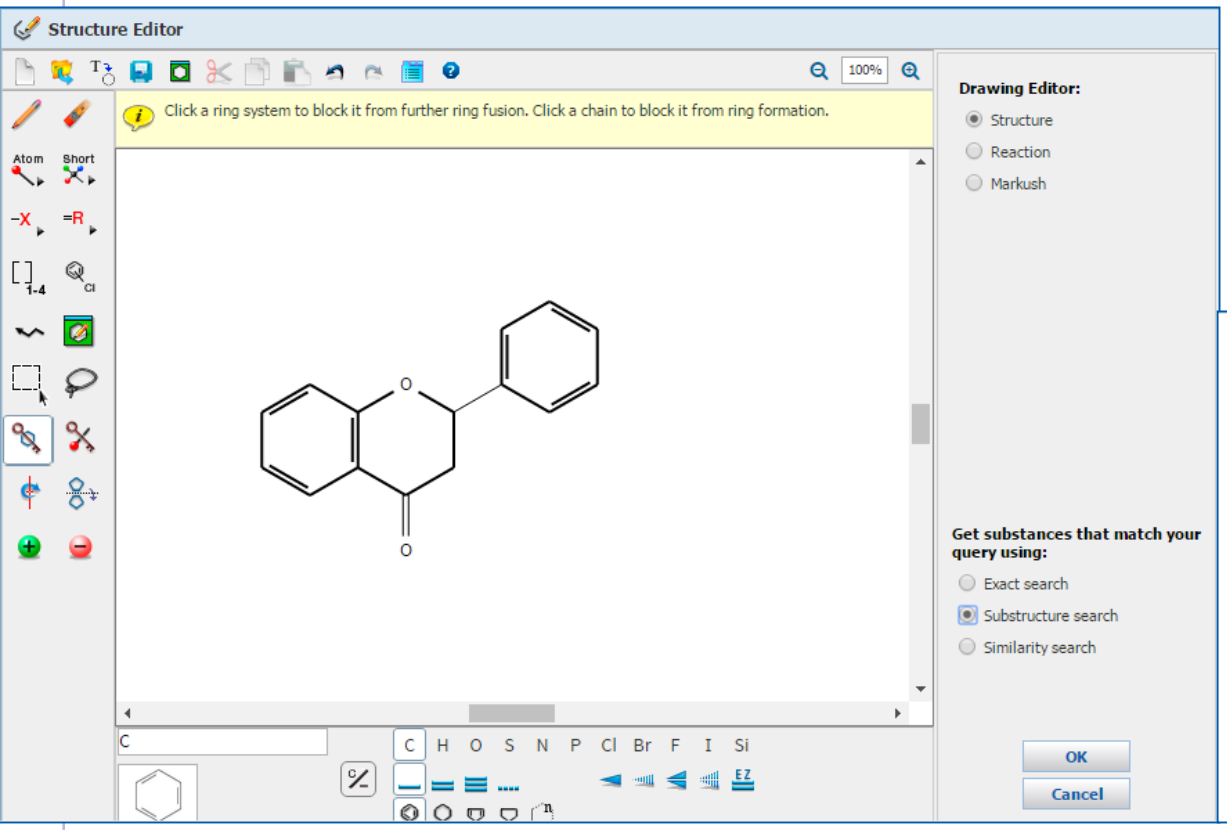
Quick View PATENTPAK

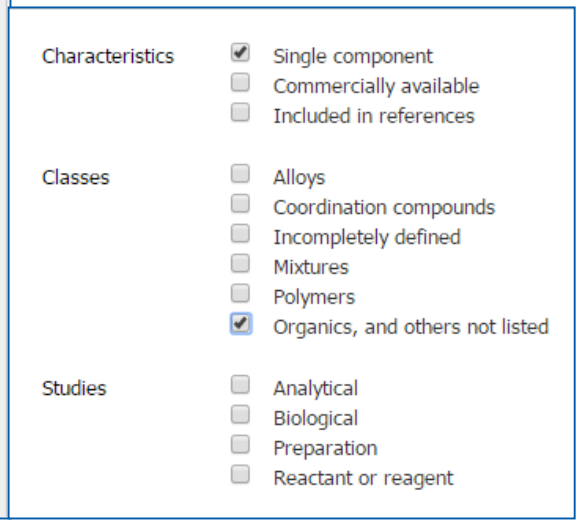
By Tu, Wangyang; Xu, Guoji; Zhang, Haitang; Chi, Jiangtao; Dong, Qing
From PCT Int. Appl. (2016), WO 2016169421 A1 20161027. | Language: Chinese, Database: CAPLUS

The invention relates to imidazo[5,1-α]isoindole derivs. of formula I, method for their prepn. and their use for the treatment of diseasess related to IDO-mediated tryptophan metabolic pathways. Compds. of formula I.bul.M$_y$, wherein A is cycloalkyl, heterocycle and (hetero)aryl; R^1 is H, alkyl, cycloalkyl, (hetero)aryl, etc.; each R^2 is independently H, alkyl, alkoxy, halo, NO_2, etc.; each R^3 is independently H, alkyl, cycloalkyl, CN, etc.; M is inorg. acid or org. acid, preferably TFA; p is 0

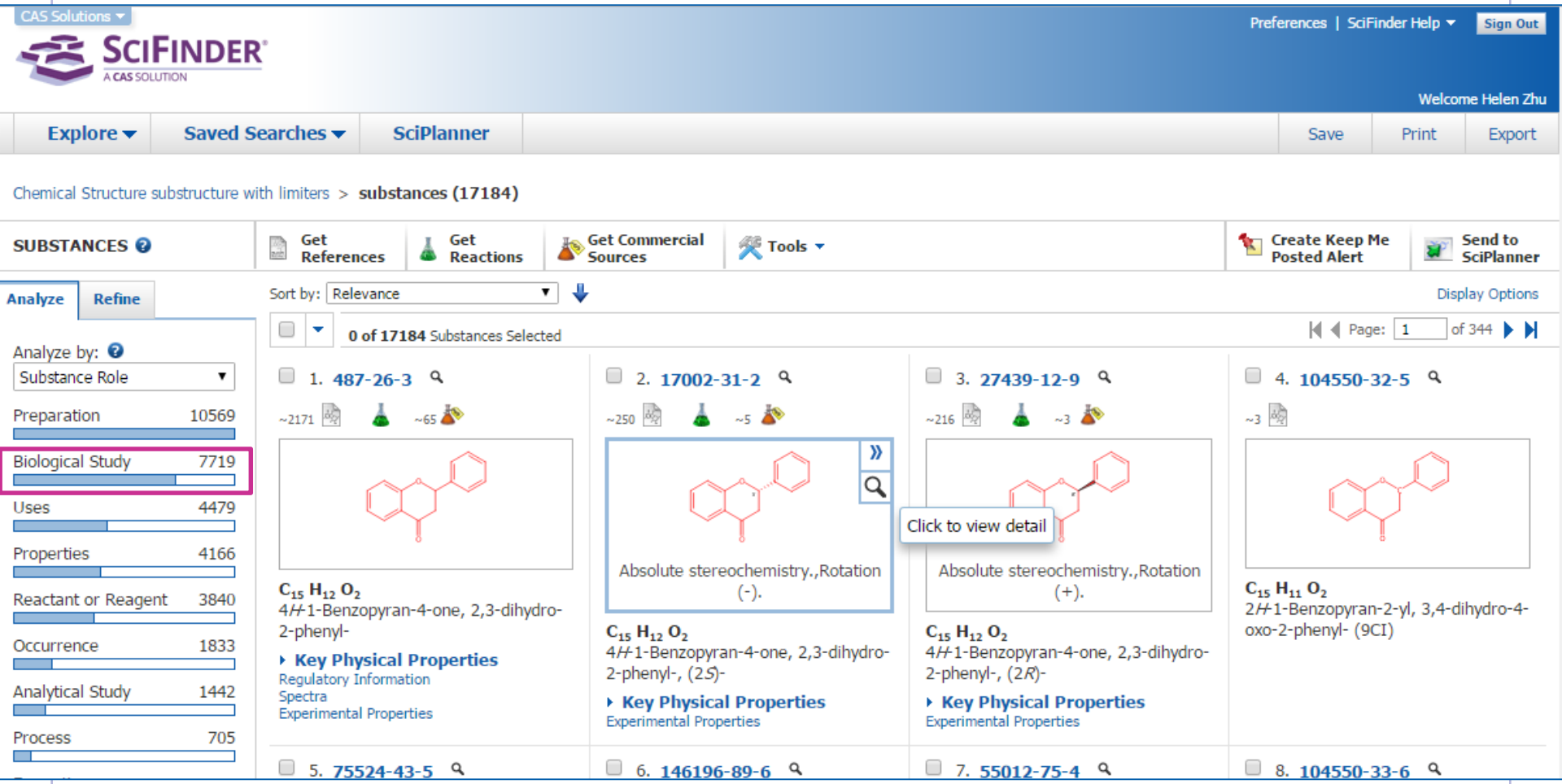
其中所述的烷基、卤代烷基、环烷基、杂环基、芳基和杂芳基任选进一步被选自烷基、卤代烷基、卤素、氨基、硝基、氰基、羟基、烷氧基、卤代烷氧基、羟烷基、环烷基、杂环基、芳基、杂芳基、$-R^a$、$-OR^7$、$-C(O)R^7$、$-C(O)OR^7$、$-S(O)_mR^7$、

筛选天然产物


Structure Editor
100%
Click a ring system to block it from further ring fusion. Click a chain to block it from ring formation.
Atom
Short
Drawing Editor:
Structure
Reaction
Markush
Get substances that match your query using:
Exact search
Substructure search
Similarity search
OK
Cancel
C H O S N P Cl Br F I Si

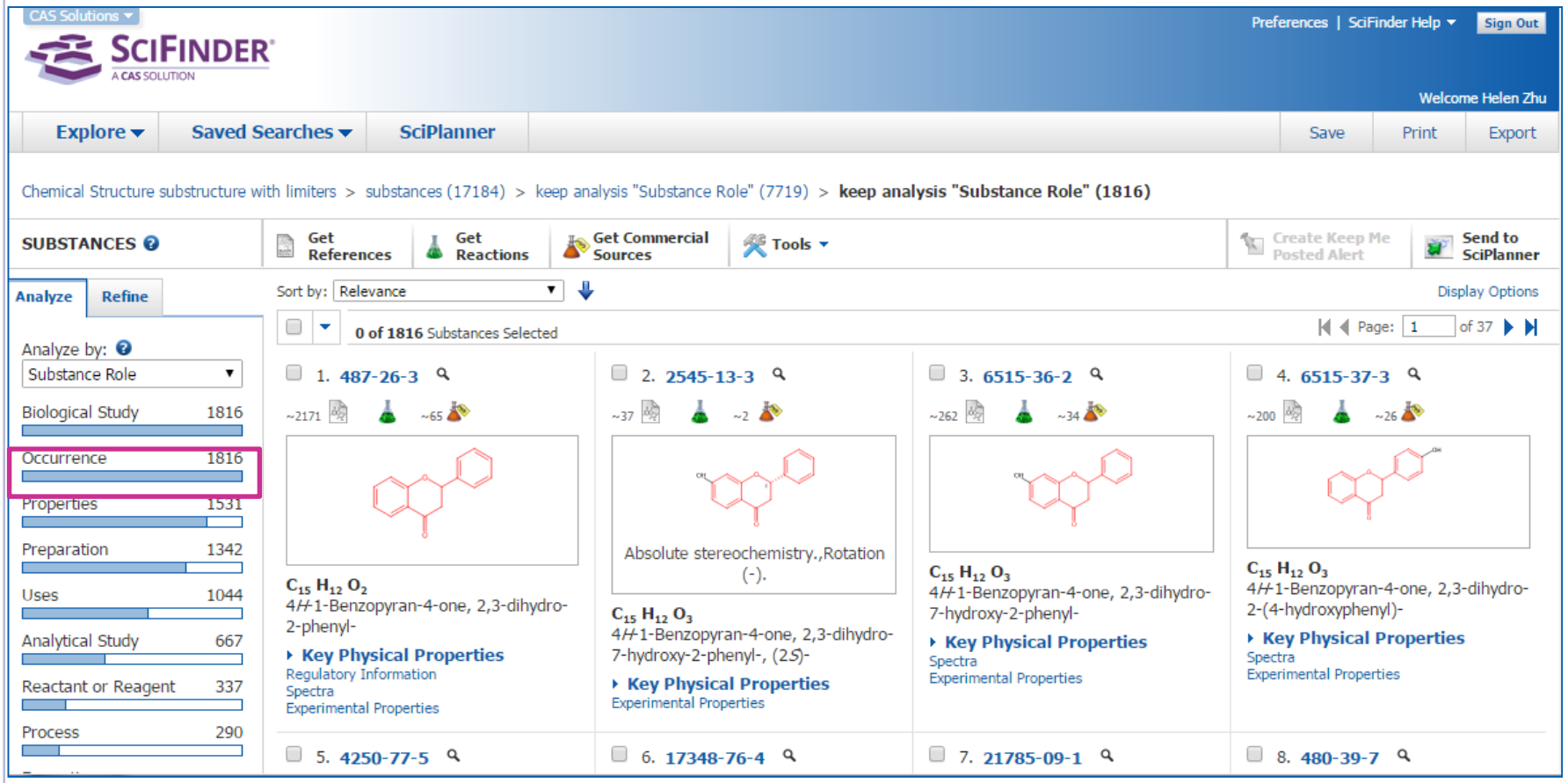

Characteristics
Single component
Commercially available
Included in references
Classes
Alloys
Coordination compounds
Incompletely defined
Mixtures
Polymers
Organics, and others not listed
Studies
Analytical
Biological
Preparation
Reactant or reagent

筛选天然产物



哪些黄酮类物质是天然存在的呢？

筛选天然产物



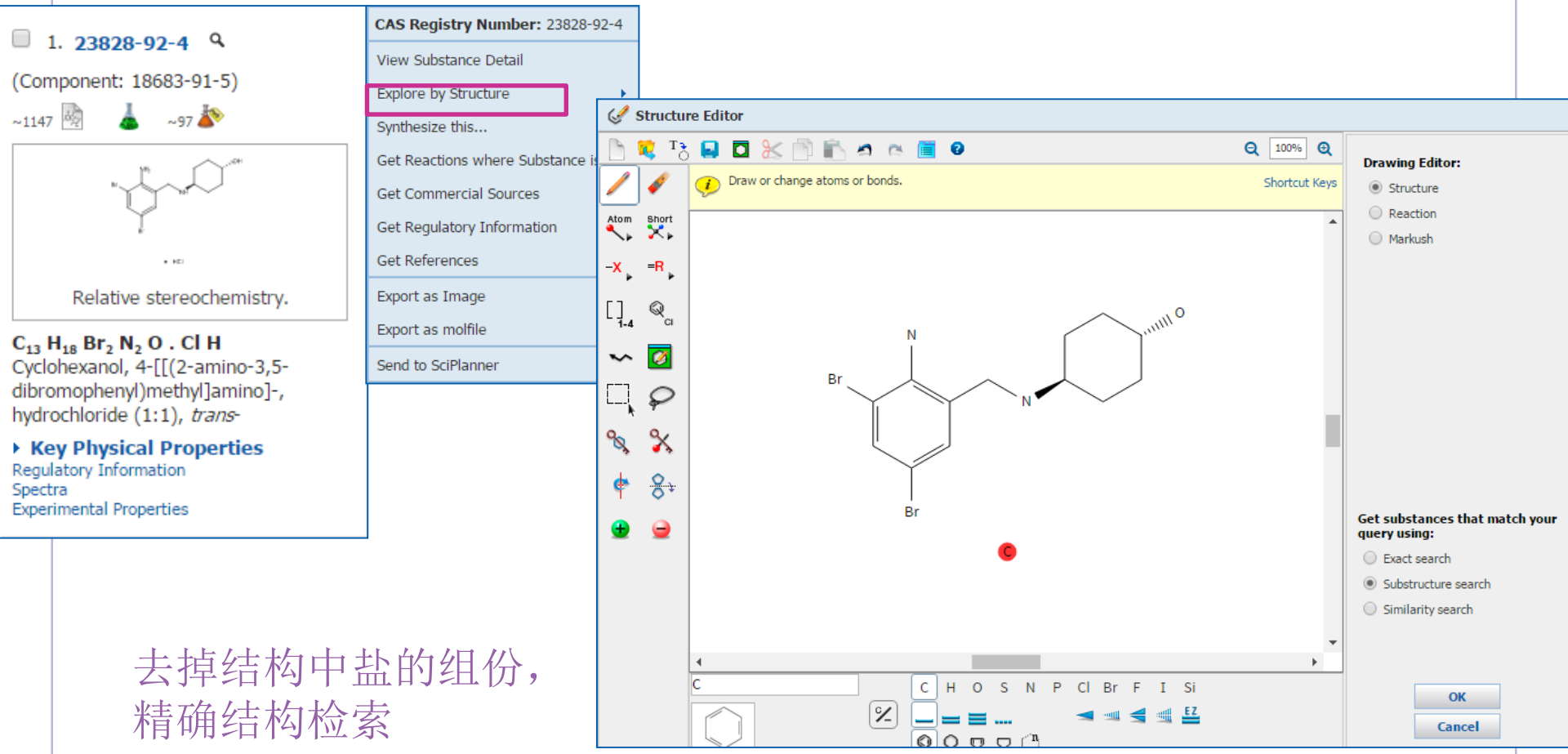
两次分析功能组合：

Analyze — Substance Role — Biological Study & Occurrence

SciFinder
A CAS SOLUTION

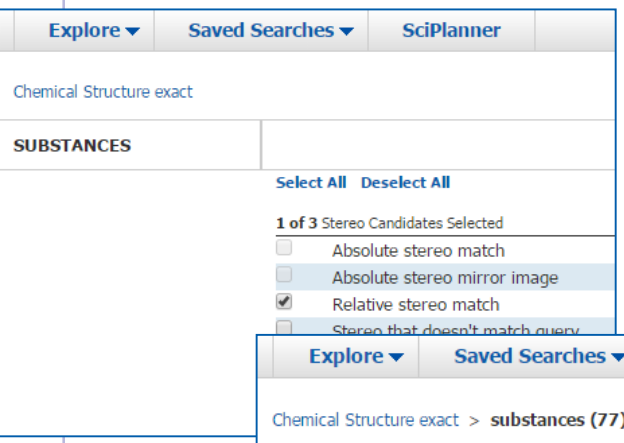
相同药效组份的物质

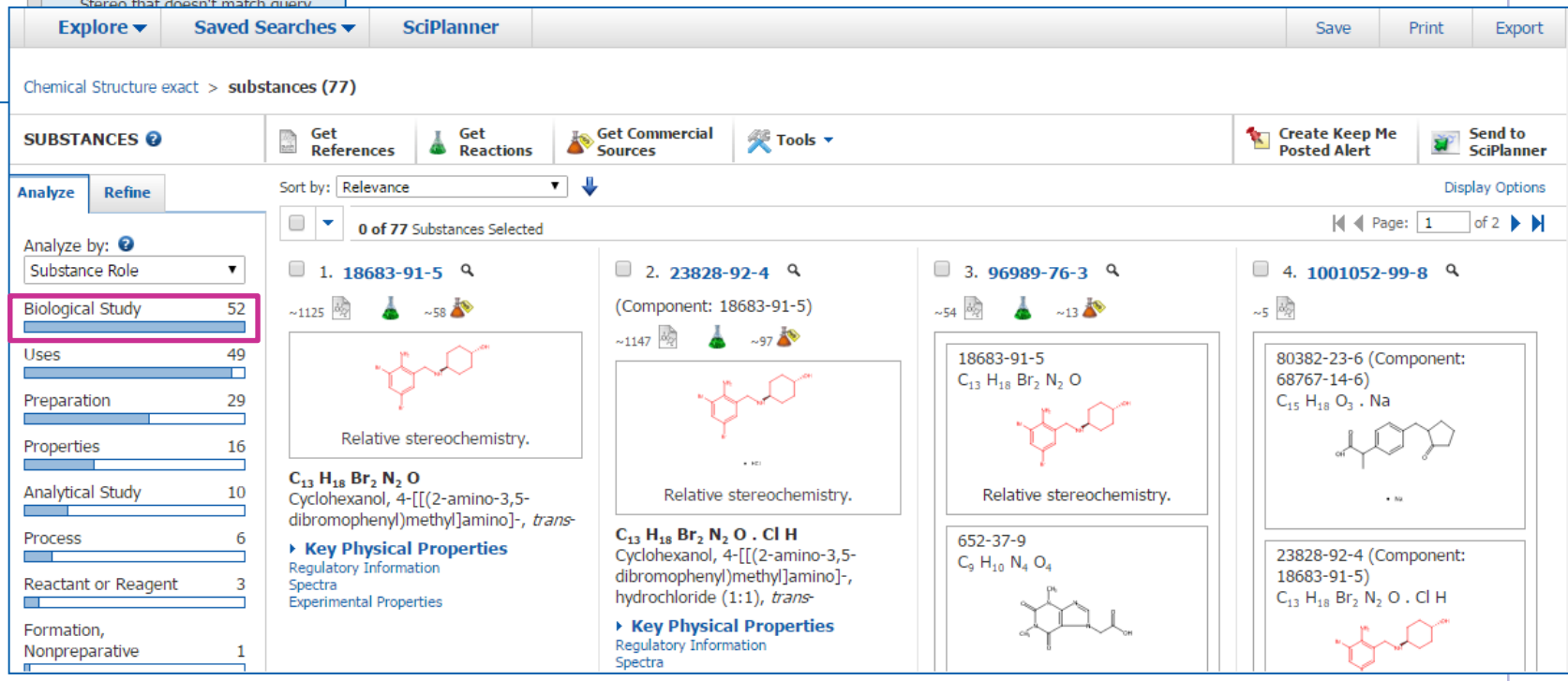
寻找与沐舒坦有相同药效组分的药物？



去掉结构中盐的组份，
精确结构检索

相同药效组份的物质





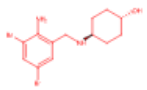
SciFinder® A CAS SOLUTION

相同药效组份的物质

3. **96989-76-3**

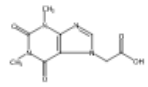
~54 ~13

18683-91-5
$C_{13}H_{18}Br_2N_2O$



Relative stereochemistry.

652-37-9
$C_9H_{10}N_4O_4$



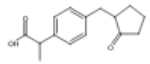
$C_{13}H_{18}Br_2N_2O \cdot C_9H_{10}N_4O_4$
7*H*-Purine-7-acetic acid, 1,2,3,6-tetrahydro-1,3-dimethyl-2,6-dioxo-, compd. with *trans*-4-[[(2-amino-3,5-dibromophenyl)methyl]amino] cyclohexanol (1:1)

Regulatory Information

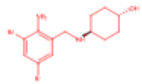
4. **1001052-99-8**

~5

80382-23-6 (Component: 68767-14-6)
$C_{15}H_{18}O_3 \cdot Na$



23828-92-4 (Component: 18683-91-5)
$C_{13}H_{18}Br_2N_2O \cdot ClH$



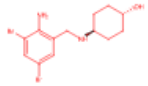
Relative stereochemistry.

$C_{15}H_{18}O_3 \cdot C_{13}H_{18}Br_2N_2O \cdot ClH \cdot Na$
Benzeneacetic acid, α-methyl-4-[(2-oxocyclopentyl)methyl]-, sodium salt (1:1), mixt. with *trans*-4-[[(2-amino-3,5-dibromophenyl)methyl]amino] cyclohexanol hydrochloride (1:1)

7. **204714-60-3**

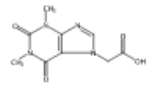
~2

18683-91-5
$C_{13}H_{18}Br_2N_2O$



Relative stereochemistry.

652-37-9
$C_9H_{10}N_4O_4$



$C_{13}H_{18}Br_2N_2O \cdot C_9H_{10}N_4O_4 \cdot H_2O$
7*H*-Purine-7-acetic acid, 1,2,3,6-tetrahydro-1,3-dimethyl-2,6-dioxo-, compd. with *trans*-4-[[(2-amino-3,5-dibromophenyl)methyl]amino] cyclohexanol, hydrate (1:1:1)

都有生物活性研究

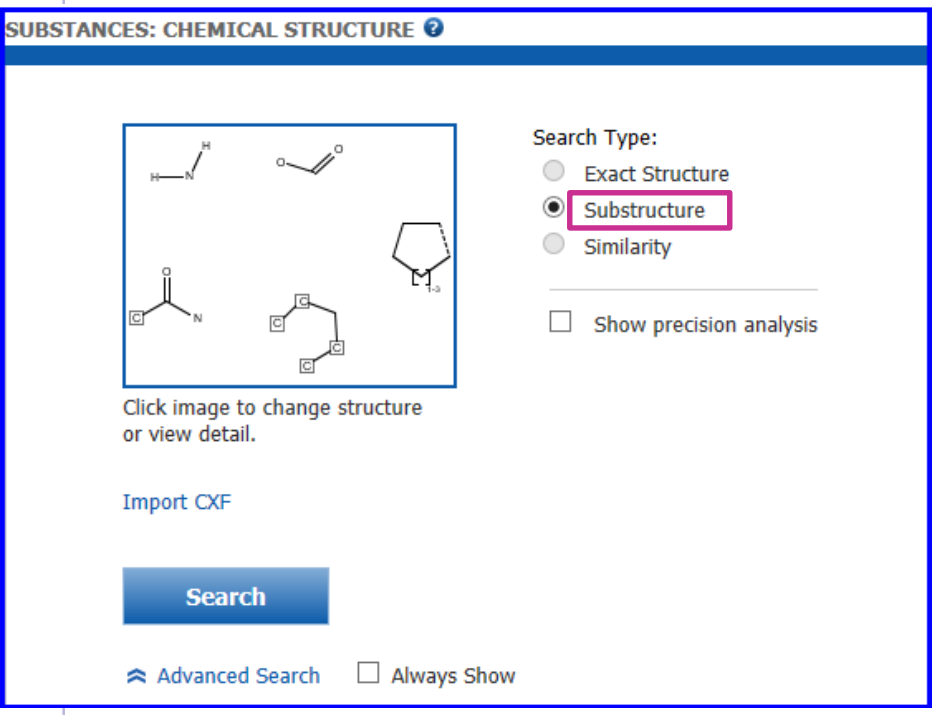
SciFinder® A CAS SOLUTION

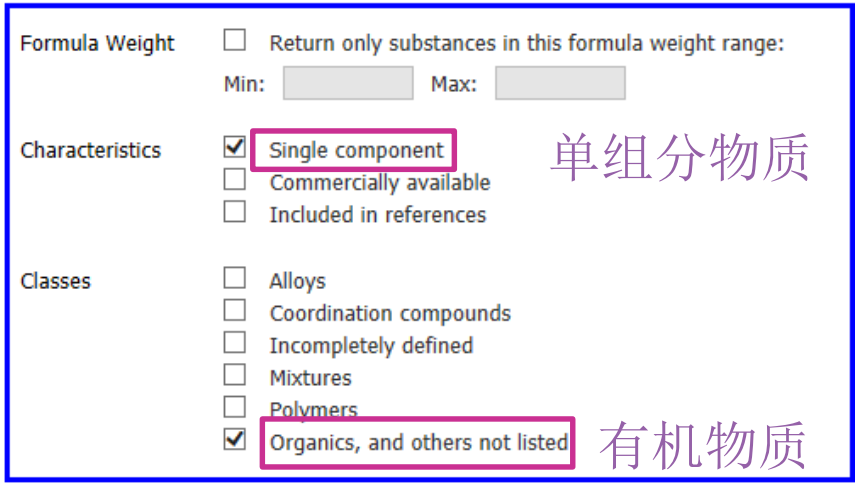
根据构效关系寻找潜药

作用机理

编辑本段

帕拉米韦是Babu等在分析唾液酸、扎那米韦、奥司他韦与NA的互相作用机制及构效关系的基础上设计并合成的环戊烷衍生物，与环连接的基团有亲水的羧基和胍基以及疏水的异戊基和乙酰氨基，4个极性不同的基团分别作用于流感病毒NA结构中不同的活性位点区域。羧基部分与NA活性位点的3个精氨酸残基Arg118，Arg292，





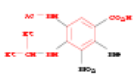
SciFinder® A CAS SOLUTION

根据构效关系寻找潜药

0 of 704 Substances Selected

1. **Substance Detail**
127971-59-9

~1

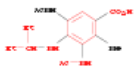


C15 H21 N3 O5
Benzoic acid, 5-(acetylamino)-4-[(1-ethylpropyl)amino]-2-methyl-3-nitro-

Experimental Properties

2. **Substance Detail**
127971-80-6

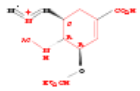
~1



C17 H25 N3 O4
Benzoic acid, 3,5-bis(acetylamino)-4-[(1-ethylpropyl)amino]-2-methyl-

3. **Substance Detail**
182367-45-9

~1

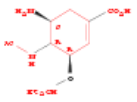


Relative stereochemistry.

C14 H22 N4 O4
1-Cyclohexene-1-carboxylic acid, 4-(acetylamino)-5-azido-3-(1-ethylpropoxy)-, (3α,4β,5α)-(9CI)

5. **Substance Detail**
182367-71-1

~2

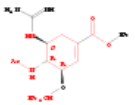


Relative stereochemistry.

C14 H24 N2 O4
1-Cyclohexene-1-carboxylic acid, 4-(acetylamino)-5-amino-3-(1-ethylpropoxy)-, (3*R*,4*R*,5*S*)-*rel*-

6. **Substance Detail**
182367-73-3

~1



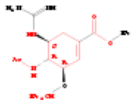
Relative stereochemistry.

C17 H30 N4 O4
1-Cyclohexene-1-carboxylic acid, 4-(acetylamino)-5-[(aminoiminomethyl)amino]-3-(1-ethylpropoxy)-, ethyl ester, (3*R*,4*R*,5*S*)-*rel*-

7. **Substance Detail**
182367-74-4

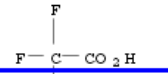
~1

182367-73-3
C17 H30 N4 O4



Relative stereochemistry.

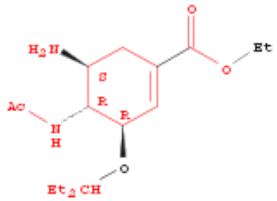
76-05-1
C2 H F3 O2



4. **Substance Detail**
182367-47-1

达菲核心成分

~1



C16 H28 N2 O4
1-Cyclohexene-1-carboxylic acid, 4-(acetylamino)-5-amino-3-(1-ethylpropoxy)-, ethyl ester, (3α,4β,5α)-(9CI)

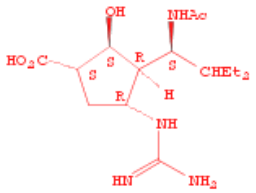
182368-47-4

~1

1. **Substance Detail**
330600-85-6

帕拉米韦

~286



C15 H28 N4 O4
Cyclopentanecarboxylic acid, 3-[(1*S*)-1-(acetylamino)-2-ethylbutyl]-4-[(aminoiminomethyl)amino]-2-hydroxy-, (1*S*,2*S*,3*R*,4*R*)-

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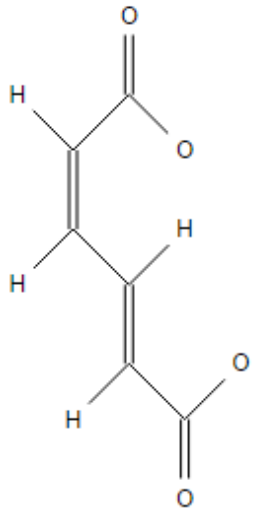
提纲

- SciFinder中的物质检索
- SciFinder中的Markush检索
- 物质检索疑难分析
- 物质检索上机练习

物质检索练习

- 检索二茂铁
- 沐舒坦（Mucosolvan）的化学名是什么？主要药效是什么？
- 检索环上有以下结构特征的天然化合物



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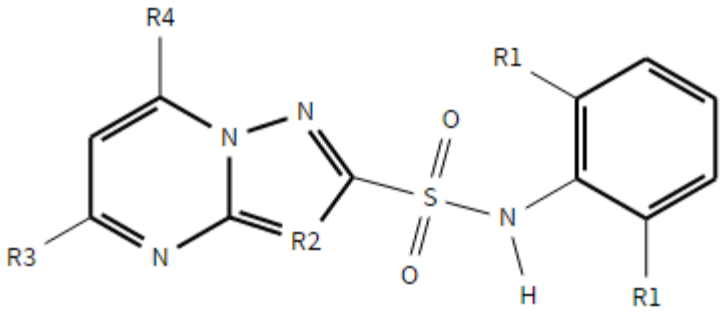
物质检索练习

- 找到包含如下物质的**所有**相关文献:



要求:

- R1 = X, H, -NO2, -CF3
- R2 = C 或 N
- R3 = 任意非氢原子
- R4 = 2-5个碳的碳链
- 结构中的环不发生稠环

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