

一、SciFinder[®] Scholar[™] Content

SciFinder Scholar 收集由 CAS 出版的数据库的内容以及 MEDLINE[®]数据库 (by the National Library of Medicine, NLM), 所有的记录都为英文 (但如果 MEDLINE 没有英文标题的则以出版的文字显示)。

数据库	内容
<i>Reference Databases (文献数据库)</i>	
CAplusSM	包含来自 150 多个国家、9000 多种期刊的文献, 覆盖 1907 年到现在的的所有文献以及部分 1907 年以前的文献, 包括有期刊、专利、会议录、论文、技术报告、书等, 涵盖化学、生化、化学工程以及相关学科, 还有尚未完全编目收录的最新文献。(目前 > 2,430 万条参考书目记录, 每天更新 3000 条以上)
MEDLINE [®]	包含来自 70 多个国家、3900 多种期刊的生物医学文献, 覆盖 1951 到现在的的所有文献, 以及尚未完全编目收录的最新文献。(目前 > 1300 万参考书目记录, 每周更新 4 次)
<i>Structure Database (结构数据库)</i>	
REGISTRYSM	涵盖从 1957 年到现在的特定的化学物质, 包括有机化合物、生物序列、配位化合物、聚合物、合金、片状无机物。REGISTRY 包括了在 CA SM 中引用的物质以及特定的注册。例如: 管制化学品列表如 TSCA 和 EINECS 中的注册。(目前 > 7400 万条物质记录, 每天更新约 7 万条, 每种化学物质有唯一对应的 CAS 注册号)
<i>Reaction Database (反应数据库)</i>	
CASREACT[®]	包括从 1907 年到现在的单步或多步反应信息。CASREACT 中的反应包括 CAS 编目的反应以及下列来源: ZIC/VINITI 数据库(1974—1991, by InfoChem GmbH), INPI (Institut National de la Propriete Industrielle, 法国) 1986 年以前的数据, 以及由教授 Klaus Kieslich 博士指导编辑的生物转化数据库。(目前 > 800 万条反应记录和 403,000 条文献记录, 每周更新约 700-1300 条)
<i>Commercial Sources Database (商业来源数据库)</i>	
CHEMCATS[®]	化学品的来源信息, 包括化学品目录手册以及图书馆等内的供应商的地址、价格等信息。(目前 > 740 万条商业化学物质记录, 来自 655 家供应商的 793 种目录)
<i>Regulatory Database (管制数据库)</i>	
CHEMLIST[®]	1979 年到现在的管制化学品的信息, 包括物质的特征、详细目录、来源以及许可信息等。(> 22.8 万种化合物的详细清单, 来自 13 个国家和国际性组织, 每周更新 > 50 条新记录)

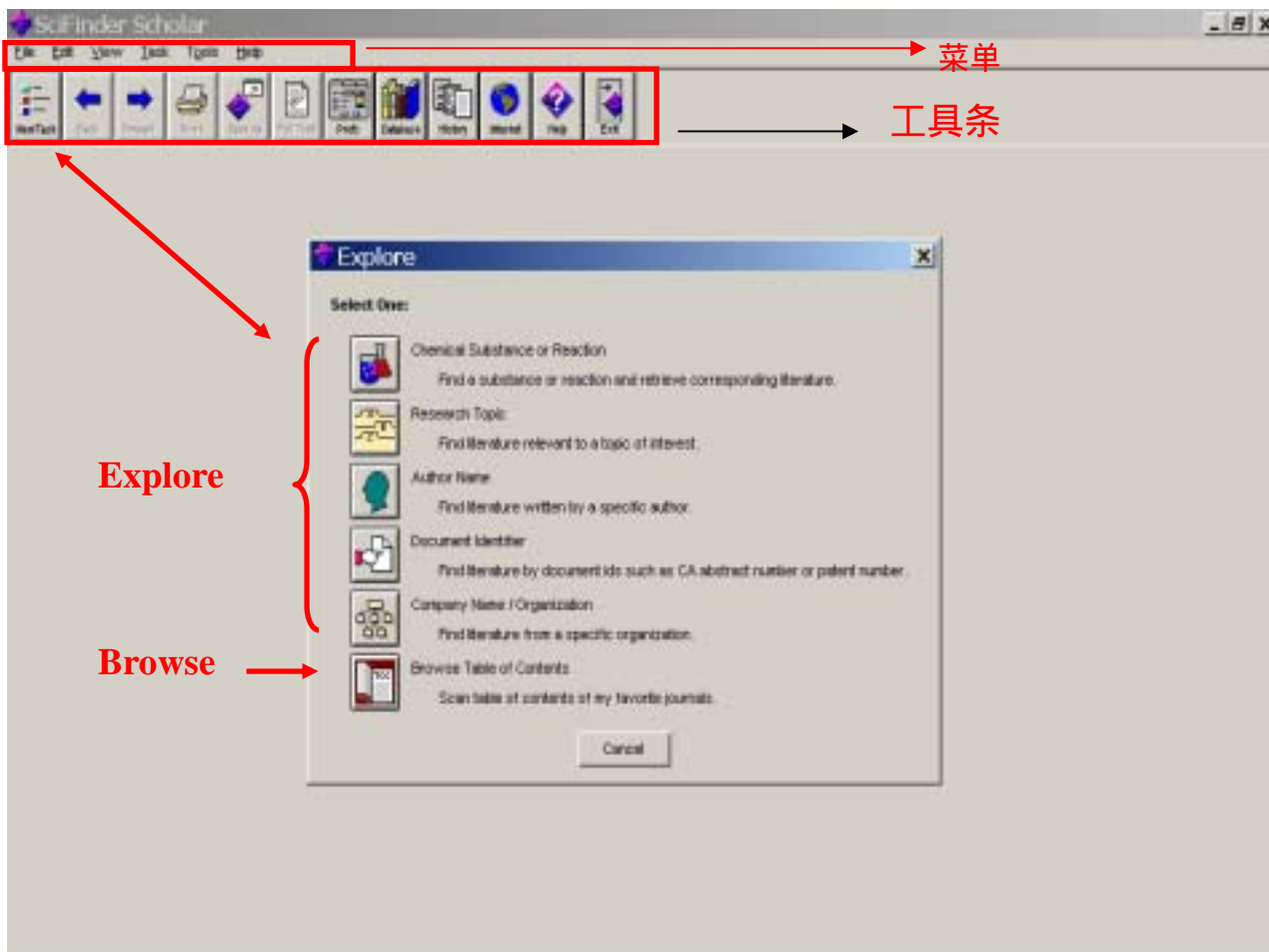
二、What You Can Find with SciFinder Scholar

通过 SciFinder Scholar 您可以得到以下信息：

Area	Information Available in SciFinder Scholar
Document Information (文献信息)	<ul style="list-style-type: none"> • Title • Author/inventor • Company name/corporate source/patent assignee • Publication year • Source, publication, date, publisher, volume, issue, pagination, CODEN, ISSN • Patent identification, including patent, application, priority, and patent family information • Abstract of the article or patent • Indexing • Supplementary terms • Citations • Substances, sequences, and reactions discussed within the document
Substance Information (物质信息)	<ul style="list-style-type: none"> • Chemical name • CAS Registry Number® • Molecular formula • Structure diagram • Sequence information, including GenBank® and patent annotations • Property data • Commercial source information from chemical supplier catalogs • Regulatory information • Editor notes • Documents in which the substance is referenced • Reactions in which the substance participates • A list of other databases available from STN, for related information
Reaction Information (反应信息)	<ul style="list-style-type: none"> • Reaction diagrams, including reactants, products, reagents, catalysts, solvents, and step notes • Citation hyperlinked to the reference record • Additional reactions, references, substance details, commercial sources, and regulatory information for all reaction participants • Notes

注意：检索结果可以打印、保存，但如要保存需注意文件名和文件所在的文件夹（包括上层目录）名都必须是英文，否则可能会出现无法保存，试用期内也不能保存。

三、SciFinder® Scholar™ 使用的简单介绍：



主要分为 Explore 和 Browse：

3.1、Explore

Explore Tool 可获取化学相关的所有信息及结构等，有如下方式：（如上图所示）

- [Chemical Substance or Reaction](#) – Retrieve the corresponding literature
 - ✓ By chemical structure
 - ✓ By substance identifier
 - ✓ By molecular formula
- [Research Topic](#) – to find literature relevant to a topic of interest.
- [Author Name](#) – to locate literature written by a specific author.
- [Document Identifier](#) – to find literature for a specific CA Accession Number or Patent Number.
- [Company Name / Organization](#) – to locate literature for a specific company, university, governmental agency, or other organization.

3.2、Browse Journal Table of Contents

可直接浏览 1800 多核心期刊的摘要及其引文等编目内容，如果带有 则可直接点击，就会通过 [ChemPort® Connection](#).SM 获取全文（[in-house](#)）

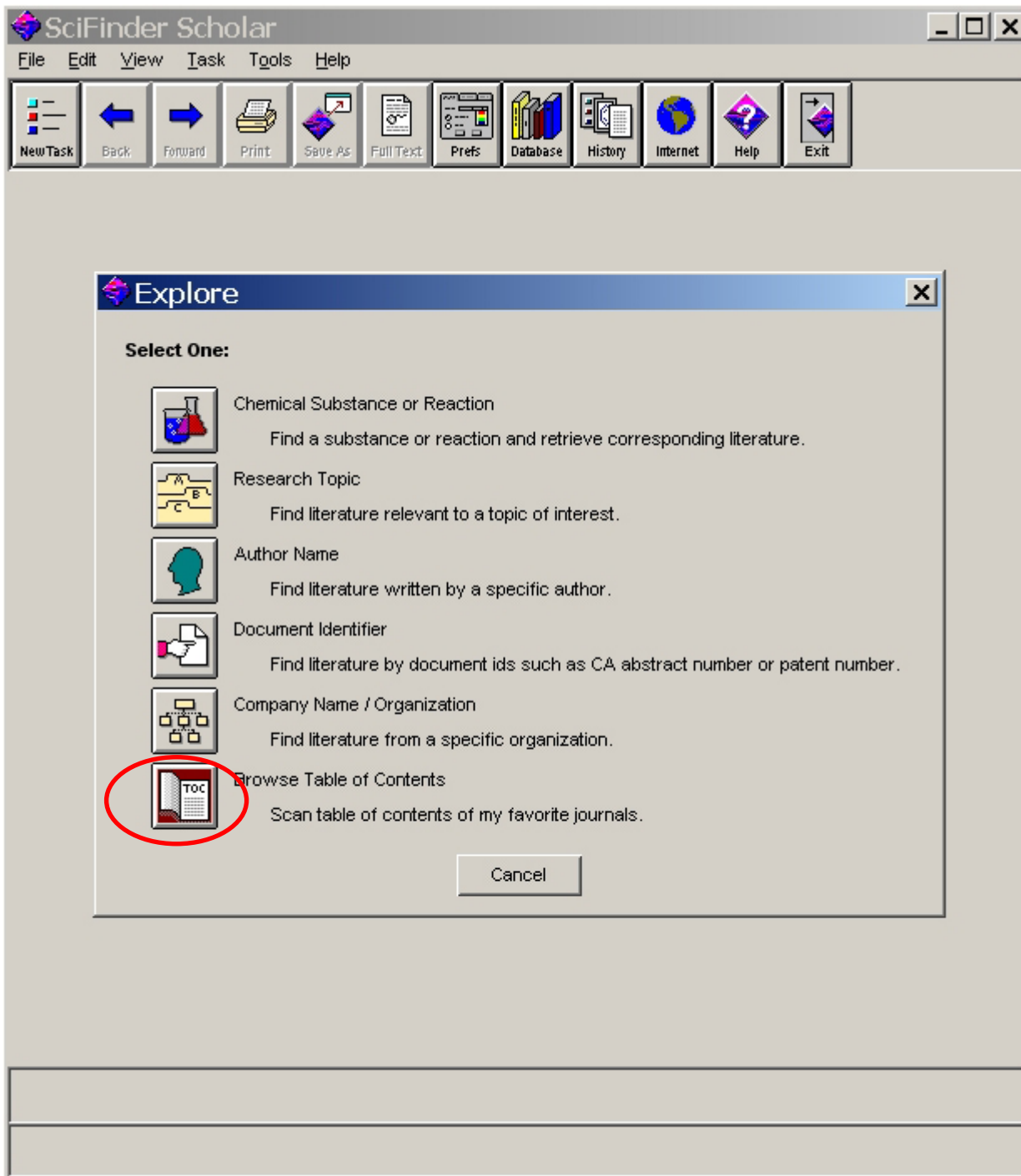
3.3 工具条按钮简述：

Toolbar Button	Function
New Task 	开始一个新任务；
Back 	显示上一屏；
Forward 	显示下一屏；
Print 	依据打印设定进行打印；
Save As 	按不同格式进行保存； Example: Rich Text Format
Full Text 	通过 ChemPort[®] ConnectionSM 索取全文；
Prefs 	打开 Preference Editor , 个性化设置使用 SciFinder Scholar；
Database 	打开 Preference Editor 中的 Databases 栏, 对执行任务时需要检索的数据库进行选择；
History 	显示您当前进程所执行过的操作；
Internet 	显示 SciFinder Scholar 的网上资源；
Help 	帮助；
Exit 	退出；

四、Browse Journal Table of Contents

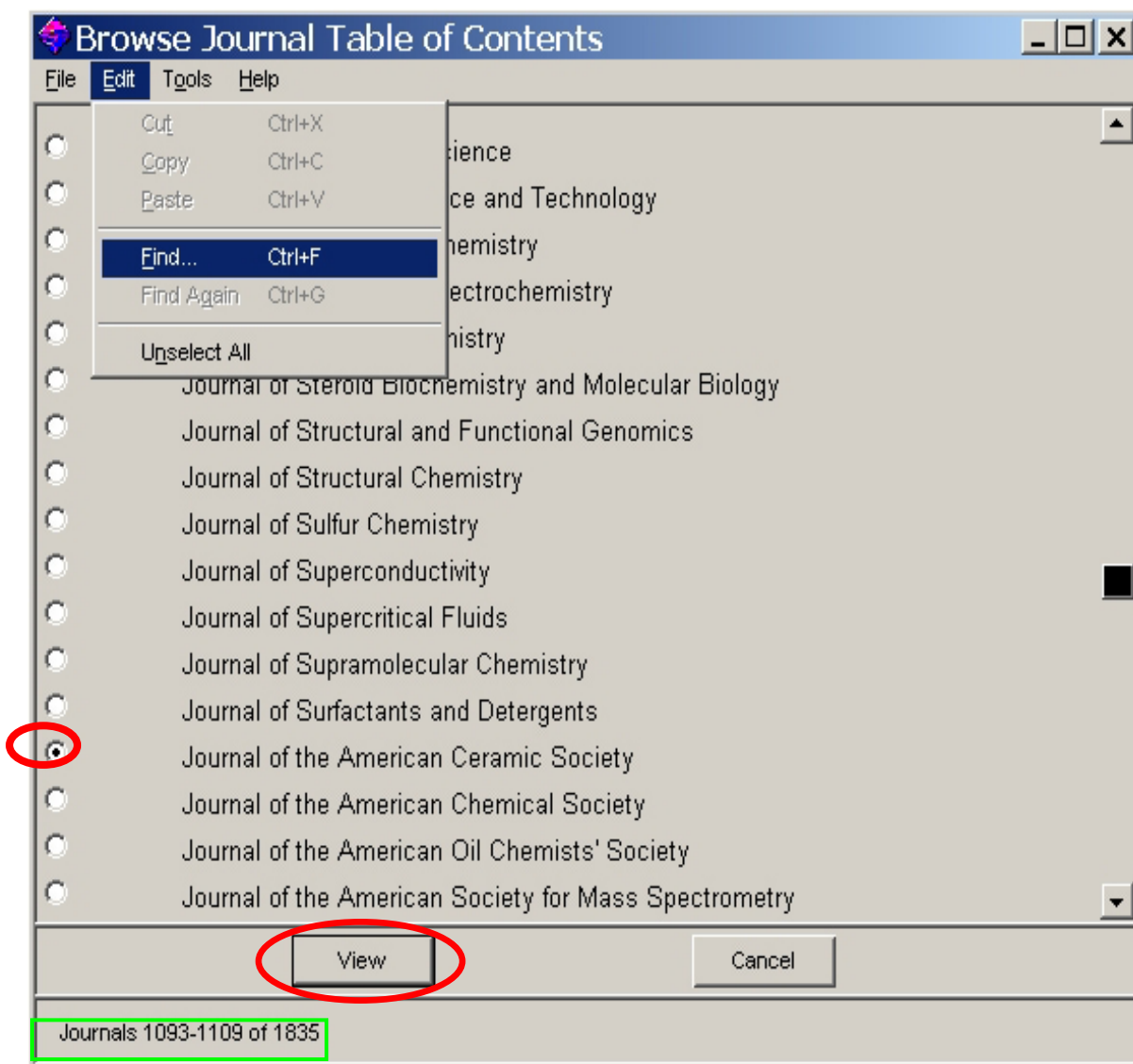
示例：查看 Journal of the American Chemical Society 的目录并链接全文；

4.1 点击 Browse Table of Contents.

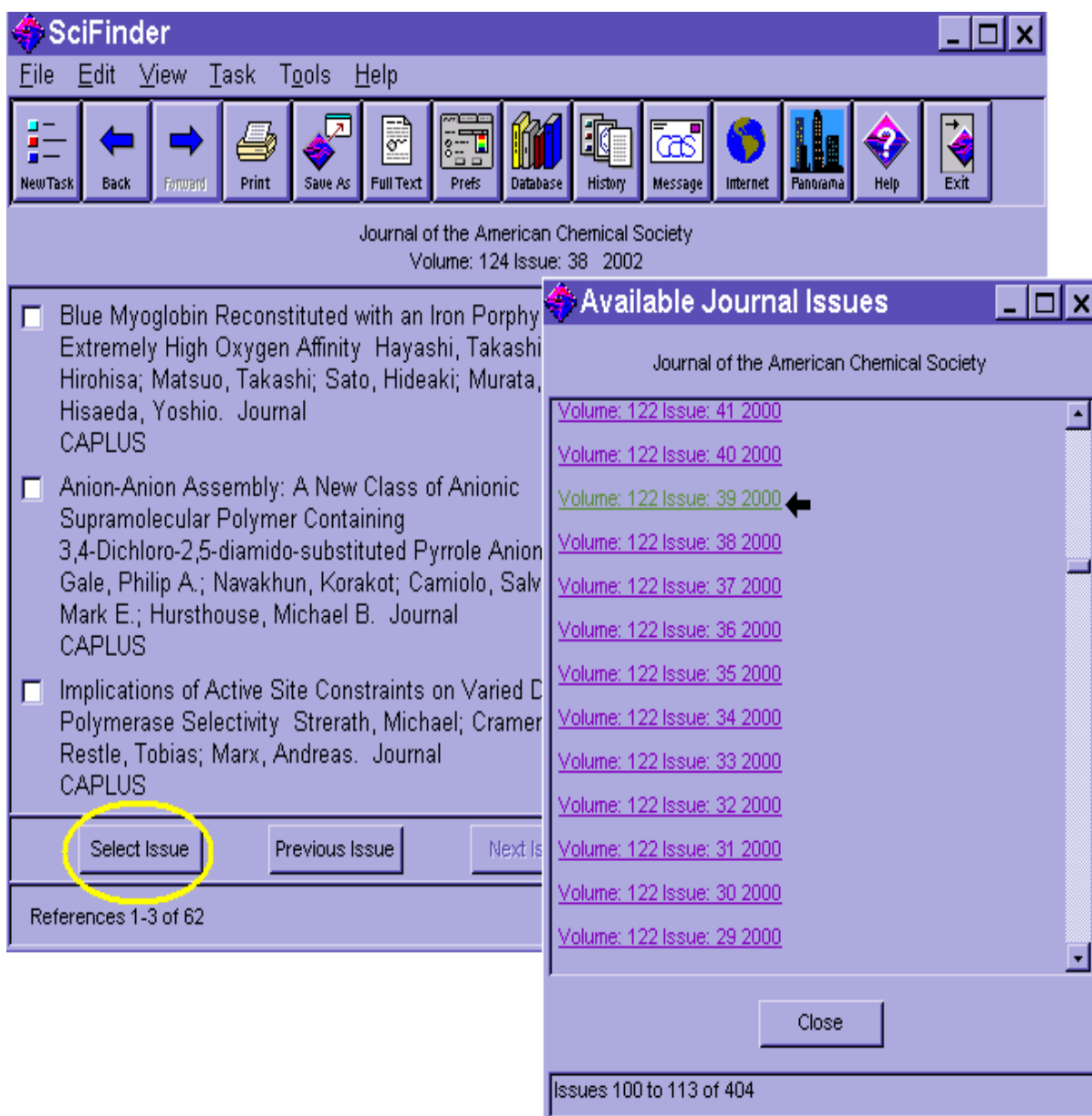


4.2 选择您想查阅的期刊，点击 **View**；

(也可通过 Edit 菜单 Find，查找所需期刊，注意名称必须完全匹配，一次只能查看一种期刊)



4.3 默认结果显示的是最新一期的目录，Previous、Next、Select 可以浏览其他期的目录内容；



4.4 如果有电脑图标，点击就可以启动 ChemPort® ConnectionSM 获取全文：

SciFinder File Edit View Task Tools Help

Journal of the American Chemical Society
Volume: 122 Issue: 39 2000

<input type="checkbox"/>	Structure and NLO Properties of Layered Bimetallic Oxalato-Bridged Ferromagnetic Networks Containing Stilbazolium-Shaped Chromophores Benard, S.; Yu, P.; Audiere, J. P.; Riviere, E.; Clement, R.; Guilhem, J.; Tchertanov, L.; Nakatani, K. Journal CAPLUS	9444-9454	
<input type="checkbox"/>	Analysis of binding affinities for celecoxib analogues with COX-1 and COX-2 from combined docking and Monte Carlo simulations and insight into the COX-2/COX-1 selectivity Price, Melissa L. Plount; Jorgensen, William L. Journal CAPLUS	9455-9466	
<input type="checkbox"/>	Probing Intermolecular Forces and Potentials with Magnetic Feedback Chemical Force Microscopy Ashby, Paul D.; Chen, Liwei; Lieber, Charles M. Journal CAPLUS	9467-9472	

Select Issue Previous Issue Next Issue **Get Related...** Back

References 13-15 of 46

ChemPort
CONNECTION

Here is the document you requested...
Analysis of binding affinities for celecoxib analogues with COX-1 and COX-2 from combined docking and Monte Carlo simulations and insight into the COX-2/COX-1 selectivity. Journal of the American Chemical Society (2000), 122(39), 9455-9466
 CODEN: JACSAT; ISSN: 0002-7863; English

Here are the options for the document you requested...

Your organization's document resources

- ✓ [Link to CAS Virtual Library](#)
- ✓ [Link to CAS DDS](#)

✓ = Confirmed availability

Web-based document resources

- ✓ [HTML](#) from the publisher.
- ✓ [PDF](#) from the publisher.
- ✓ [EBSCO](#) a journal subscription agent for your organization.

✓ = Confirmed availability

Journal

- [Journal of the American Chemical Society](#)

Publisher

- [American Chemical Society](#)
- [Logoff](#)
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- [About](#)

The full text is displayed. (如果是已经订阅或开放的电子文献，就可以直接查看全文，当然也有可能出现要求付费才能查看的页面)

J. Am. Chem. Soc. **2000**, *122*, 9455–9466 9455

Analysis of Binding Affinities for Celecoxib Analogues with COX-1 and COX-2 from Combined Docking and Monte Carlo Simulations and Insight into the COX-2/COX-1 Selectivity

Melissa L. Plount Price and William L. Jorgensen*

Contribution from the Department of Chemistry, Yale University, New Haven, Connecticut 06520-8107

Received March 22, 2000. Revised Manuscript Received July 21, 2000

Abstract: The origins of binding affinity and COX-2/COX-1 selectivity for analogues of celecoxib have been explored using an approach that combines docking with Monte Carlo (MC) simulations. These inhibitors are COX-2-selective nonsteroidal antiinflammatory drugs (NSAIDs) that are of current interest because the gastrointestinal irritation they cause is reduced compared to that caused by traditional NSAIDs. We report a novel docking method, based on a combined Tabu and Monte Carlo protocol, that determines starting conformations for MC simulations. Using the docking-predicted starting conformations, relative changes in binding free energies were computed for methyl, ethyl, hydroxymethyl, hydroxyl, thiomethyl, methoxy, trifluoromethyl, chloro, fluoro, and unsubstituted derivatives with the MC free energy perturbation (FEP) method. The computed free energies are in good accord with IC_{50} values, and the structural information from the simulations can be used to explain the experimentally observed binding trends. In addition, the docking and FEP results have provided clarification of the binding conformation of the phenylsulfonamide moiety and the origin of COX-2/COX-1 selectivity. Namely, the COX-2 Val → COX-1 Ile substitution is accompanied by an unfavorable conformational shift of the phenylsulfonamide ring.

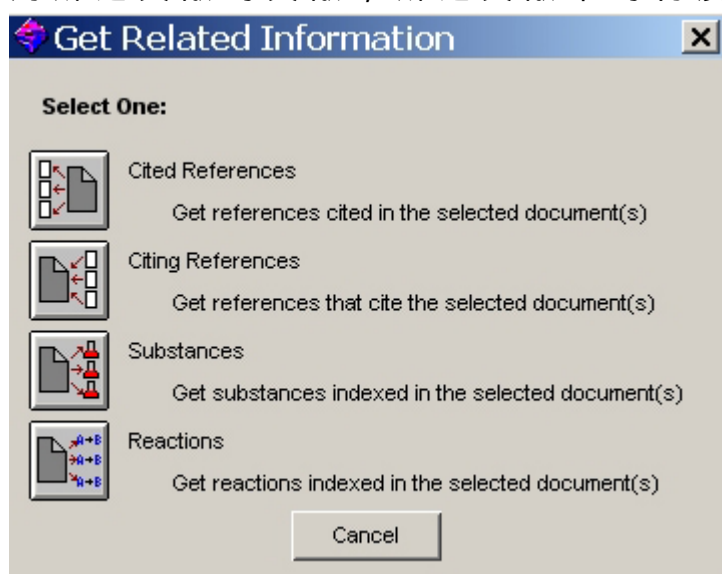
Introduction

Nonsteroidal antiinflammatory drugs (NSAIDs) inhibit prostaglandin synthesis by blocking the cyclooxygenation of arachi-

Recently, a second generation of NSAIDs has been developed for the treatment of rheumatoid arthritis and osteoarthritis. These drugs selectively inhibit the COX-2 isozyme and differ clinically from traditional NSAIDs by having a reduced incidence of

4.5 Get Related 功能

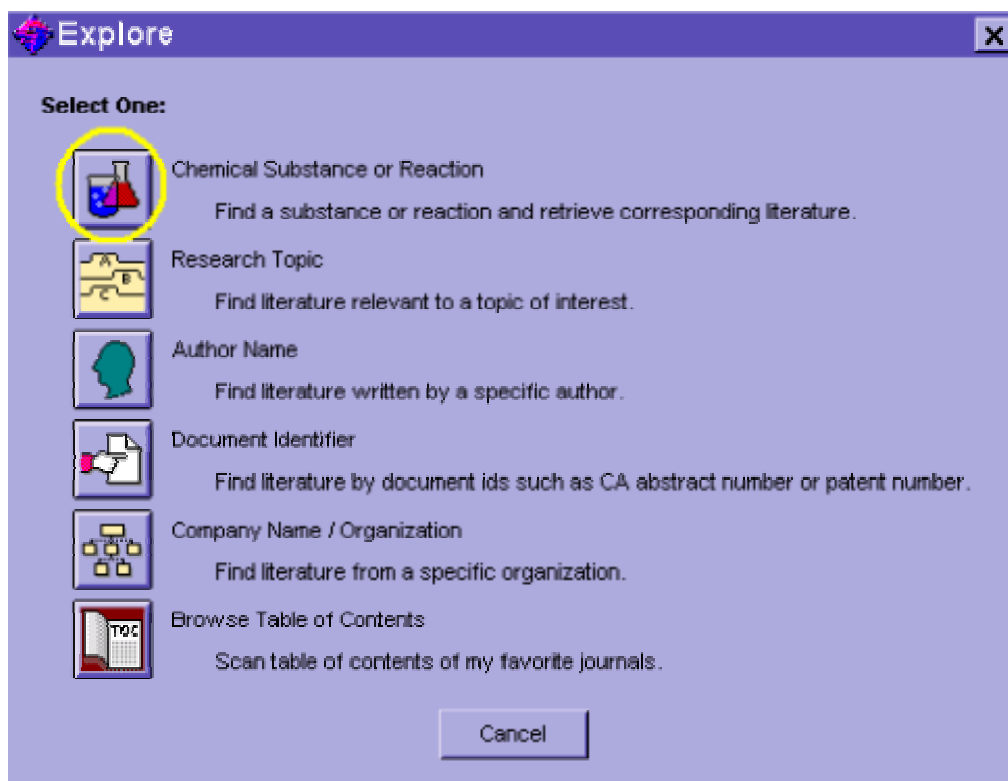
可以查看关联信息；选中某一文献或整期查找；（分别有：所选文献引用的文献，引用所选文献的文献，所选文献中的物质，所选文献中的反应



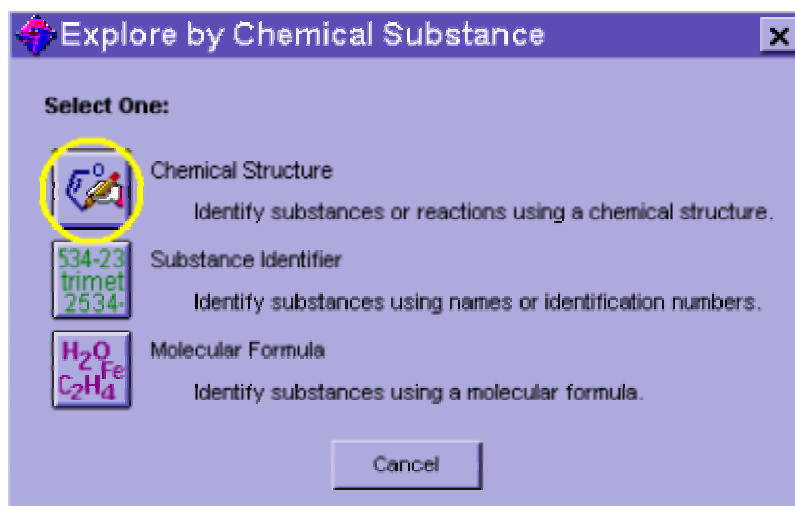
五、Explore

5.1 Explore by Chemical Substance or Reaction:

点击 Chemical Substance Or Reaction 开始，见下图：



弹出：



5.1.1 Explore by Chemical Structure，如上图

则进入 Scholar 的结构绘制窗口，画出 Ibuprofen 的结构；点击 Get Substances，弹出窗口，再点击 OK 即可，

lbuprofen.cxf

File Edit View Tools Template Help

Atom Short

X R

alcohc keton aldehy

C H O S N P Cl Br F Si I Scale 100

Preview **Get Substances** Get Reactions Cancel

C13H18O2 206.28

Get Substances

Get substances where this structure is:

an exact match or a related structure

a substructure of a more complex structure

OK Additional Options Cancel

Additional Options 可以进一步提出检索条件；

进入检索结果界面：

图中的图标说明：

- References for the substance (物质的引文)
- 3D model of the substance (物质的3D模型, 须已安装相关软件如 ViewerLite)
- Commercial source information (商业来源信息)
- Regulated chemicals listing (管制化学品列表)
- Reactions that involve the substance (获取反应)

点击 A B 图标，弹出窗口，选择该物质在反应中的位置，如选择 Product，则将 Ibuprofen 作为产物的反应都检索出来。

Get References 可以获取相关文献，Analyze/Refine 可以对结果进行分析或二次检索；

也可以点击反应式中的任何物质获取更多信息，如果点击 Reactions，则弹出选项，这里我们选择了 Substance Detail，提供 CAS Registry 记录，

Detail for Registry Number 6448-14-2

File Edit Help

-- Properties --

Property	Calculated Value	Condition	Note
H donors	1		(1) ACD
H acceptors	2		(1) ACD
Molecular Weight	204.26		(1) ACD
logP	4.312±0.350		(1) ACD
logD	4.31	pH 1	(1) ACD
logD	3.97	pH 4	(1) ACD
logD	1.27	pH 7	(1) ACD
logD	0.52	pH 8	(1) ACD
logD	0.22	pH 10	(1) ACD
pKa	3.92±0.20	Most Acidic	(1) ACD
Molar Solubility	Sparingly Soluble	pH 1	(1) ACD
Molar Solubility	Sparingly Soluble	pH 4	(1) ACD
Molar Solubility	Slightly Soluble	pH 7	(1) ACD
Molar Solubility	Soluble	pH 8	(1) ACD
Molar Solubility	Soluble	pH 10	(1) ACD

Property	Experimental Value	Condition	Note
Melting Point	88.5-92.8 °C	Solv: hexane (110-54-3)	(2) IC

Notes:

(1) Calculated using Advanced Chemistry Development (ACD) Software Solaris V4.67 (© 1994-2002 ACD)

(2) [Kurtz, Richard R.; J. Org. Chem. 1981, V46\(1\), P202-3](#)

Close

点击其中的超链接，可以查看得到此结果的参考文献内容。

Detail for Reference 1981:46911

File Edit Help

Bibliographic Information

A 1,6-eliminative epoxide cleavage in the synthesis of an ibuprofen metabolite. Kurtz, Richard R.; Houser, David J. Res. Lab., Upjohn Co., Kalamazoo, MI, USA. J. Org. Chem. (1981), 46(1), 202-3. CODEN: JOCEAH ISSN: 0022-3263. Journal written in English. CAN 94:46911 AN 1981:46911 CAPLUS

Abstract

2-[p-(2-Methyl-2-hydroxypropyl)phenyl]propionic acid (I), a human metabolite of ibuprofen (II), was synthesized in five steps from II. The transformation was accomplished efficiently, utilizing a novel epoxide cleavage to remote functionalization of the iso-Bu side chain.

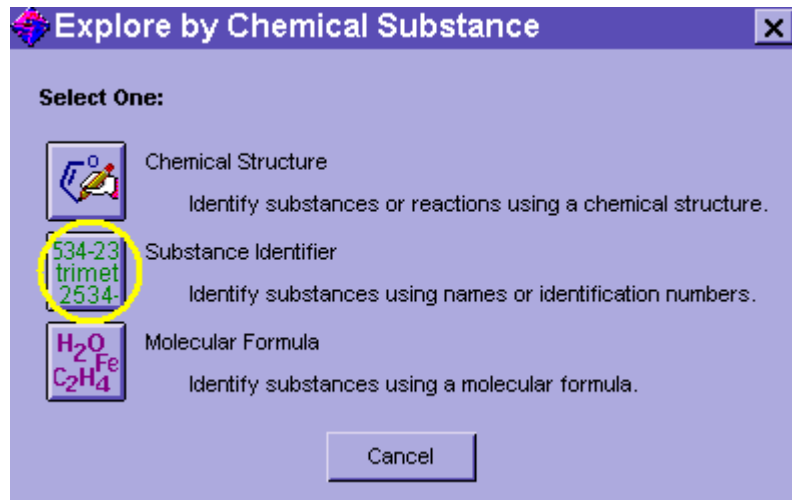
CC(C)C(O)Cc1ccc(cc1)C(=O)O **I** CC(C)C(O)Cc1ccc(cc1)C(=O)O **II**

Indexing -- Section 25-17 (Noncondensed Aromatic Compounds)

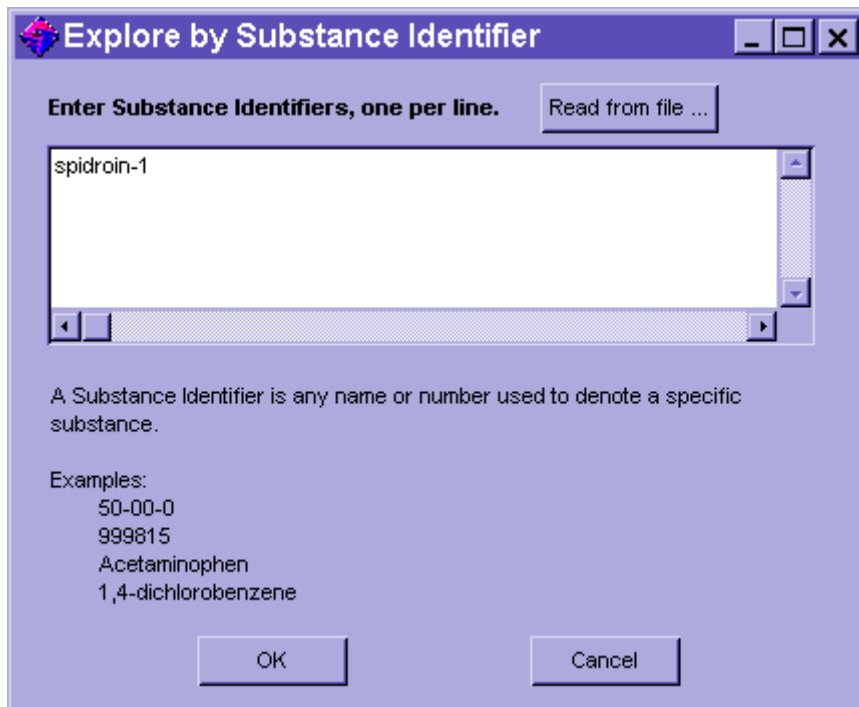
15687-27-1P
Role: PREP (Preparation)
(metabolite of, synthesis of)

Close

5.1.2 Explore by Substance Identifier,如下：



输入感兴趣的物质的名称，每行一个，也可输入 CAS Registry，再点击 OK：



则搜索出相关的蛋白质或核酸序列 —— 每个都有各自的 CAS Registry Number，点击显微镜图标，可以查看每个物质的详细信息；

SciFinder Scholar

File Edit View Task Tools Help

NewTask Back Forward Print Save As Full Text Prefs Database History Internet Help Exit

<input type="checkbox"/> 380690-89-1 Sequence Length: 2322 Nucleic Acid Sequence ~1 Reference REGISTRY	<input type="checkbox"/> 380690-88-0 Sequence Length: 271 Protein Sequence ~1 Reference REGISTRY	<input type="checkbox"/> 380690-87-9 Sequence Length: 364 Protein Sequence ~1 Reference REGISTRY
<input type="checkbox"/> 380690-86-8	<input type="checkbox"/> 380690-85-7	<input type="checkbox"/> 380690-84-6

Get References Get Reactions Analyze/Refine Back

Substances 13-21 of 68

Detail of Substance 3

File Edit Help

Registry Number: 380690-88-0

CA Index Name: Spidroin-1 (synthetic Nephila clavipes clone SF1) (9C)

Other Names: 40; PN: WO0194393 SEQID: 40 claimed protein

Class Identifier: Manual Registration

Sequence Length: 271

Annotations:

Source	Feature	Location	Description	Reference
Not Given				WO2001094393 SEQID 40; claimed

Sequence:

```

1  GQGGYGGGLGG QGAGQGGYGG LGGQGAGQGA GAAAAAAGGA GQGGYGGGLGS
51  QGAGRGGQGA GAAAAAAGGA GQGGYGGGLGS QGAGRGGGLGG QGAGAAAAAA
101 GGAGQGGYGG LGSQGAGRGG QGAGAAAAAA GGAGQGGYGG LGSQGAGRGG
151 LGGQGAGAAA AAAGGAGQGG YGGLGGQGAG QGGYGGGLGSQ GAGRGGGLGGQ
201 GAGAAAAAG GAGGGGLGGG GAGGAGGAGG GAGGAGGGG YGGLGSQAGG
  
```

Close

点击 **Get References** 可以查看与该物质相关的文献，也可选择该物质在该文献中的地位；

SciFinder Scholar

File Edit View Task Tools Help

NewTask Back Forward Print Save As Full Text

380690-89-1
Sequence Length: 2322
Nucleic Acid Sequence
~1 Reference
REGISTRY

380690-86-8

Get References

Substances 13-21 of 68

Get References

Retrieve references for:

All substances Selected substances

For each substance, retrieve:

All references References associated with:

Adverse Effect, including Toxicity Occurrence
 Analytical Study Preparation
 Biological Study Process
 Combinatorial Study Properties
 Crystal Structure Reactant or Reagent
 Formation, nonpreparative Spectral Properties
 Miscellaneous Uses

For each **sequence**, retrieve:

Additional related references, e.g., activity studies, disease studies. **i**

OK Back

SciFinder Scholar

File Edit View Task Tools Help

NewTask Back Forward Print Save As Full Text Prefs Database History Internet Help Exit

Lewis, Randolph V.; Hayashi, Cheryl Y.; Gatesy, John E.; Motriuk, Dagmara. **Spider silk protein gene and cDNA sequences, polypeptides, antibodies, and method of use thereof.** PCT Int. Appl. (2003), 99 pp. CODEN: PIXXD2 WO 2003020916 A2 20030313 CAN 138:233043 AN 2003:202797 CAPLUS

Roth, Donald A.; Lewis, Randolph V. **Manufacture of spider silk proteins in higher plants by expression of synthetic genes.** PCT Int. Appl. (2002), 114 pp. CODEN: PIXXD2 WO 2002099082 A2 20021212 CAN 138:38161 AN 2002:946460 CAPLUS

Scheller, Juergen; Conrad, Udo; Grosse, Frank; Guehrs, Karl-Heinz. **Synthetic genes for the spidroins of Nephila clavipes and their expression in transgenic plants.** PCT Int. Appl. (2001), 119 pp. CODEN: PIXXD2 WO 2001094393 A2 20011213 CAN 136:32705 AN 2001:904248 CAPLUS

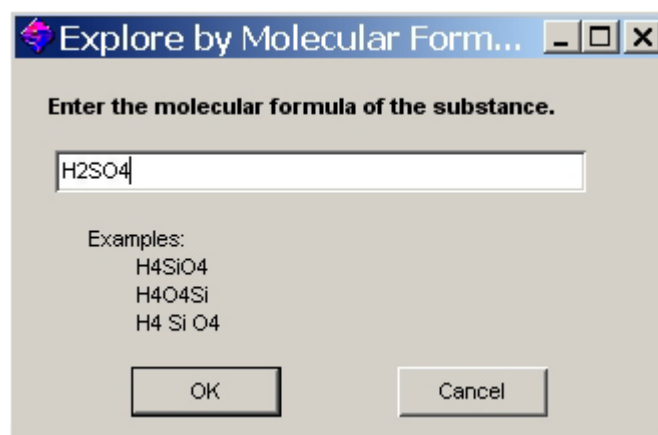
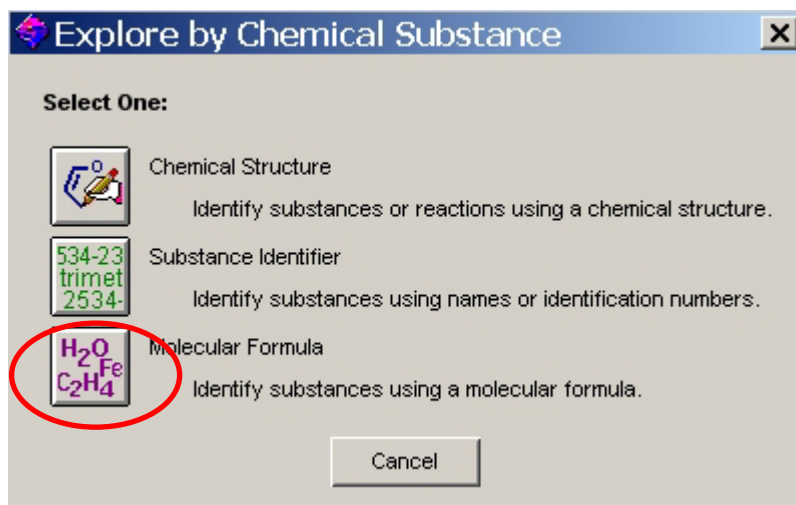
Yang, Jianjun Gene. **Production of silk-like proteins from Bombyx mori and Nephila clavipes in plants.** PCT Int. Appl. (2001), 93 pp. CODEN: PIXXD2 WO 2001090389 A2 20011129 CAN 136:18084 AN 2001:868707 CAPLUS

Eckrodt, Stefan D. **Recombinantly produced synthetic protein analogs for spider silk**

Analyze/Refine Get Related... Back

References 1-5 of 13

5.1.3 Explore by Molecular Formula



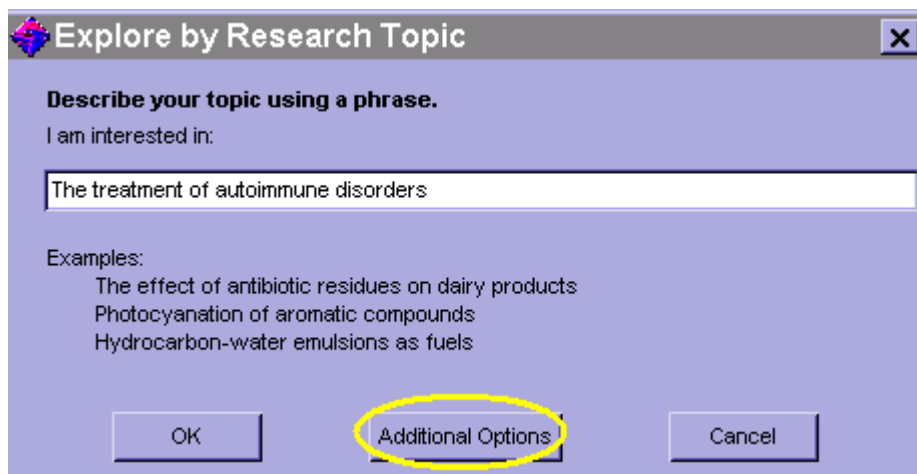
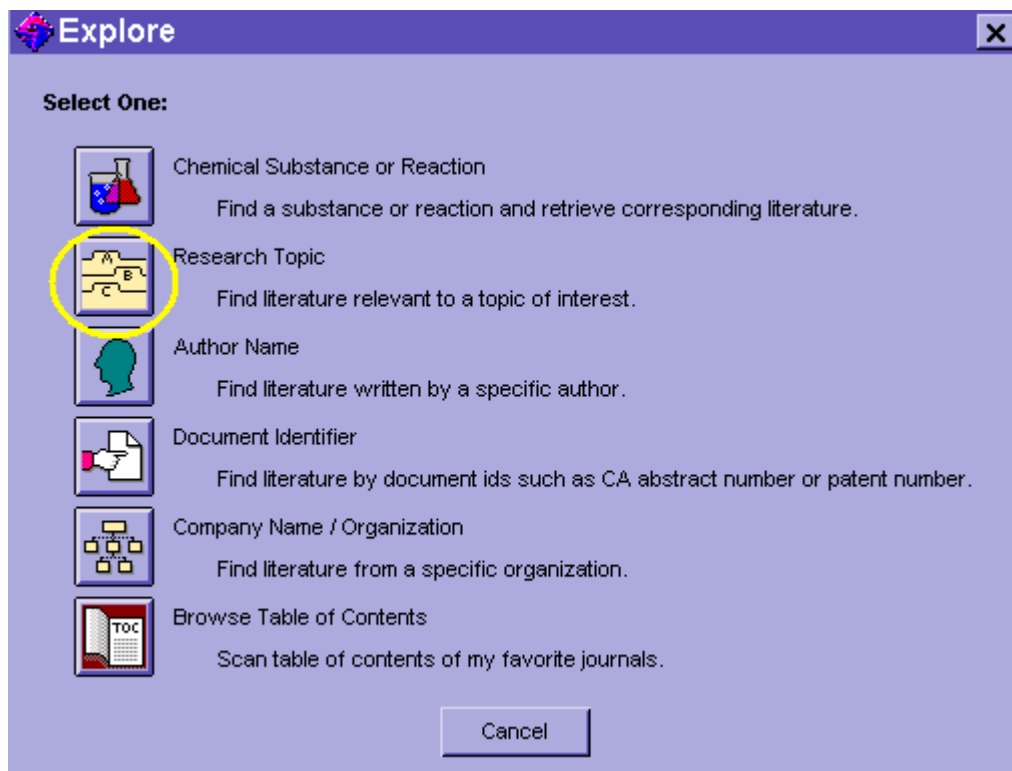
通过分子式进行检索：SciFinder Scholar 会分析您所输入的分子式，并重新编排原子，使之成为能被计算机识别的 Hill System Order，搜索 CAS Registry 数据库，并显示匹配结果；

如果输入的原子是模糊的，则弹出窗口提示修改，如元素符号的上标、下表，元素符号之间以空格隔开等（多数情况下会自动修正）；如果是多组分的物质如聚合物，盐类等，则各个组分之间以英文的句号 . 隔开。如 Component1.Component2

5.2 Explore by Research Topic

通过研究主题来检索；

(假设你现在要写一篇关于 autoimmune disorders 不同治疗方法的功效的文章)



Explore by Research Topic - Additional Options [X]

Describe your topic using a phrase.
I am interested in:

The treatment of autoimmune disorders

Examples:
The effect of antibiotic residues on dairy products
Photocyanation of aromatic compounds
Hydrocarbon-water emulsions as fuels

You may limit your search by any of the following:

Limit by Publication Year

Limit by Document Type

<input type="checkbox"/> Biography	<input type="checkbox"/> Dissertation	<input type="checkbox"/> Patent
<input type="checkbox"/> Book	<input type="checkbox"/> Editorial	<input type="checkbox"/> Preprint
<input checked="" type="checkbox"/> Clinical Trial	<input type="checkbox"/> Historical	<input checked="" type="checkbox"/> Report
<input type="checkbox"/> Commentary	<input checked="" type="checkbox"/> Journal	<input type="checkbox"/> Review
<input checked="" type="checkbox"/> Conference	<input type="checkbox"/> Letter	

Limit by Language

Limit by Author

Limit by Company Name

OK Remove Options Cancel

按上述方法输入后，点击 OK：

Topic Candidates [-] [] [X]

File Edit Task Tools Help

Select Candidates of interest **(limited by Document Type):**

91 references were found containing **"The treatment of autoimmune disorders"** as entered.

666 references were found containing the two concepts **"treatment"** and **"autoimmune disorders"** closely associated with one another.

2234 references were found where the two concepts **"treatment"** and **"autoimmune disorders"** were present anywhere in the reference.

3898540 references were found containing the concept **"treatment"**.

7697 references were found containing the concept **"autoimmune disorders"**.

Get References Back

Candidates 1-5 of 5

再选中您最感兴趣的内容，获取文献：

SciFinder Scholar

File Edit View Task Tools Help

NewTask Back Forward Print Save As Full Text Prefs Database History Internet Help Exit

- Larroche, Claire; Chanseaud, Youri; Garcia de la Pena-Lefebvre, Paloma; Mouthon, Luc. **Mechanisms of intravenous immunoglobulin action in the treatment of autoimmune disorders.** BioDrugs (2002), 16(1), 47-55. CODEN: BIDRF4 ISSN:1173-8804. CAN 137:183941 AN 2002:330660 CAPLUS
- Jackson, D. C.; Purcell, A. W.; Fitzmaurice, C. J.; Zeng, W.; Hart, D. N. J. **The central role played by peptides in the immune response and the design of peptide-based vaccines against infectious diseases and cancer.** Current Drug Targets (2002), 3(2), 175-196. CODEN: CDTUAW ISSN:1389-4501. CAN 136:368010 AN 2002:290527 CAPLUS
- Brodsky, Robert A. **High-dose cyclophosphamide for aplastic anemia and autoimmunity.** Current Opinion in Oncology (2002), 14(2), 143-146. CODEN: CUOOE8 ISSN:1040-8746. CAN 136:350072 AN 2002:277243 CAPLUS
- Bordignon, Claudio; Roncarolo, Maria Grazia. **Therapeutic applications for hematopoietic stem cell gene transfer.** Nature Immunology (2002), 3(4), 318-321. CODEN: NIAMCZ ISSN:1529-2908. CAN 137:18900 AN 2002:266724 CAPLUS
- Nguyen, Christine; Duhl, Adam J.; Escallon, Cathleen S.; Blakemore, Karin J. **Multiple anomalies in a fetus exposed to low-dose methotrexate in the first trimester.** Obstetrics & Gynecology (New York, NY, United States) (2002), 99(4), 599-602. CODEN: OBGNAS ISSN:0029-7844. CAN 138:198502 AN 2002:232909 CAPLUS

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Bibliographic Information

Mechanisms of intravenous immunoglobulin action in the treatment of autoimmune disorders. Larroche, Claire; Chanseaud, Youri; Garcia de la Pena-Lefebvre, Paloma; Mouthon, Luc. Department of Internal Medicine and Infectious Diseases, Hopital Avicenne and Assistance Publique-Hopitaux de Paris, Bobigny, Fr. BioDrugs (2002), 16(1), 47-55. CODEN: BIDRF4 ISSN: 1173-8804. Journal; General Review written in English. CAN 137:183941 AN 2002:330660 CAPLUS

Abstract

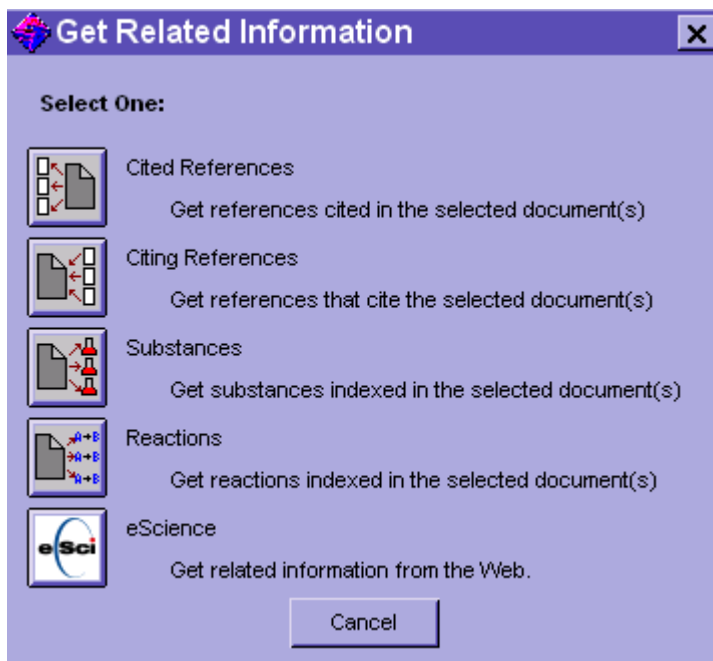
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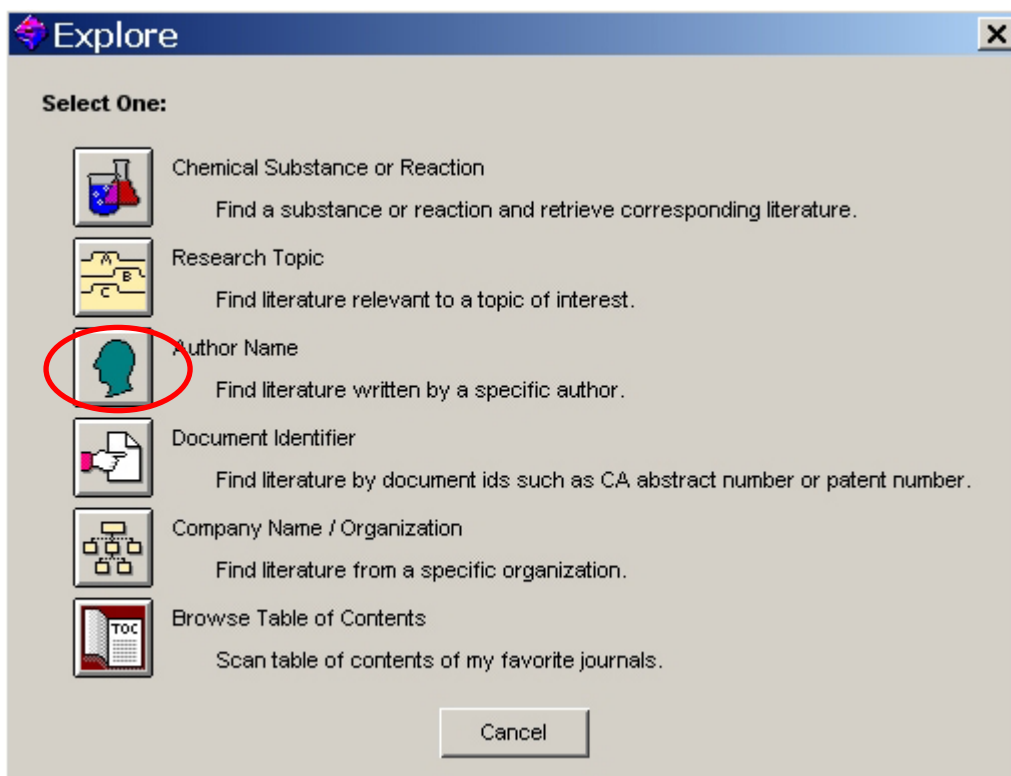
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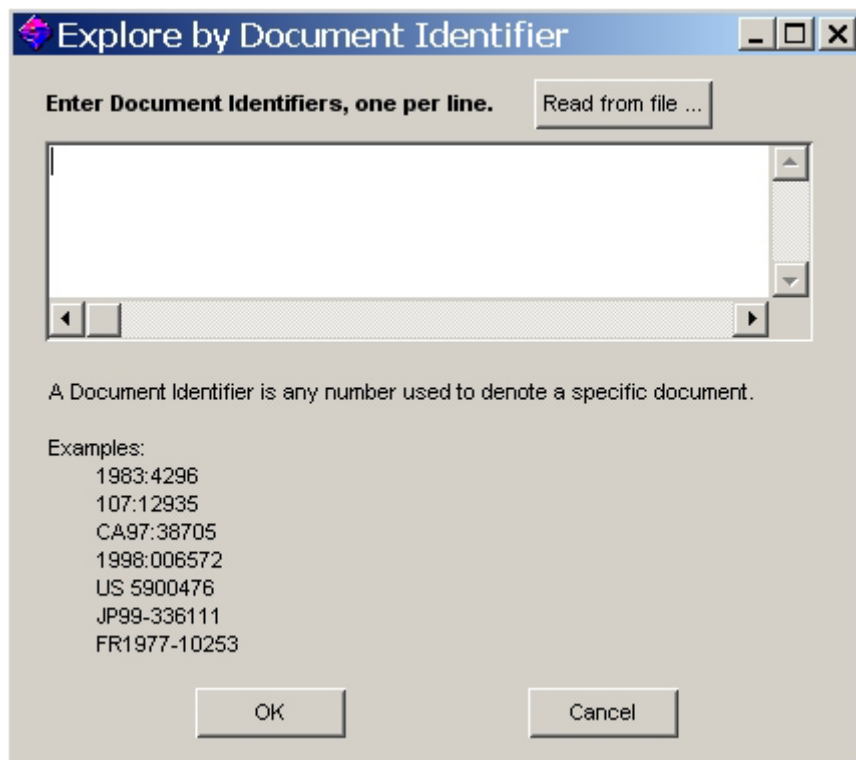
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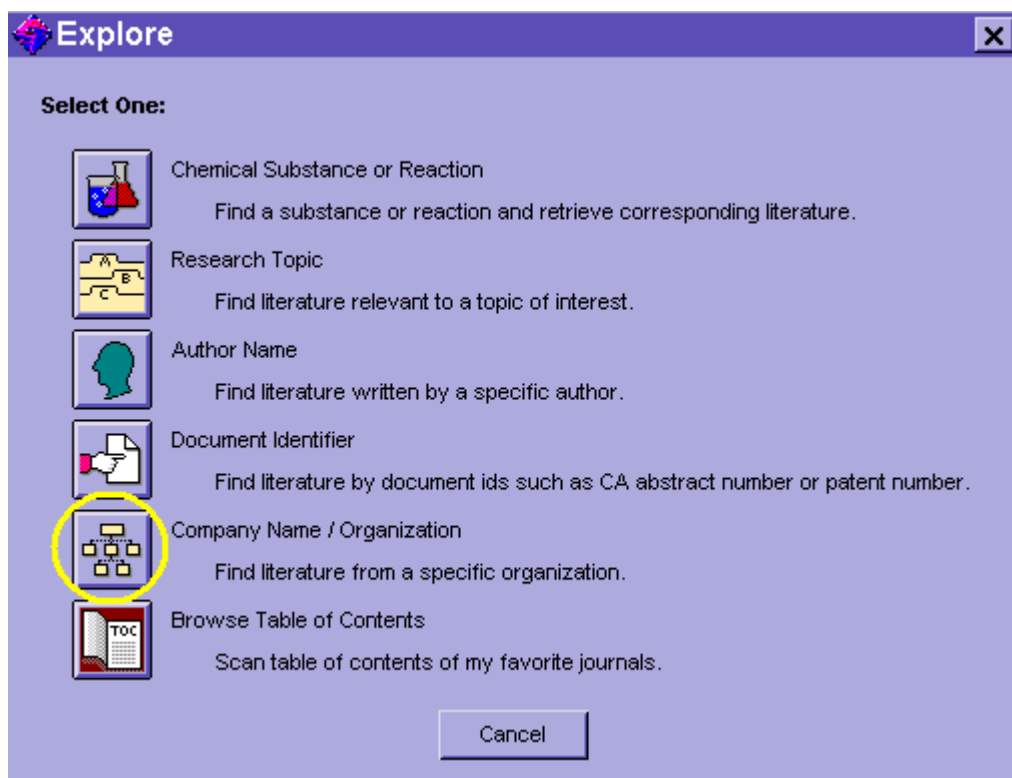
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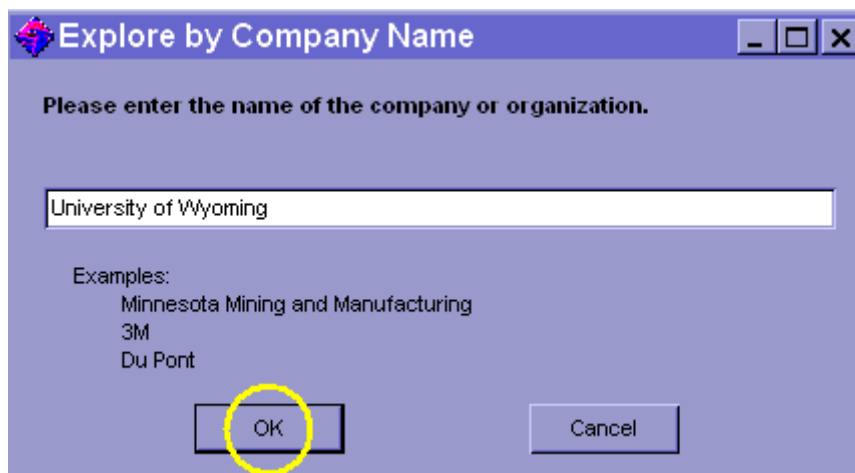
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McBeth, Ian H. **Chemistry in the 21st century: a vision for the future**. *Chemical Society Reviews* 32(1), 1-10. 2003. PMID: 12882102. CAPLUS

John, Theodore. **Insertion sequence IS100: a model for the evolution of insertion sequences**. *Journal of Molecular Biology* 107-113. Cold Spring Harbor, NY: Cold Spring Harbor Laboratory Press, 1977. CAPLUS

Stith, Charles. **Using serum albumin to study the structure of the protein**. *Journal of Biological Chemistry* 278(1), 1-10. 2003. PMID: 12882103. CAPLUS

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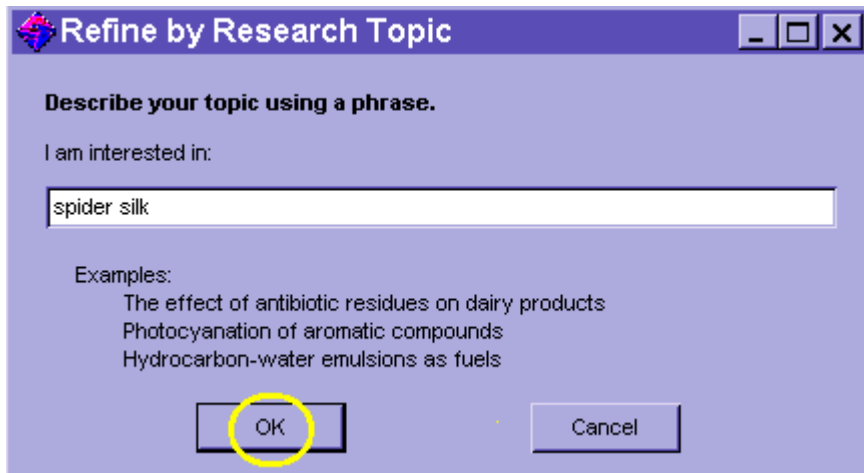
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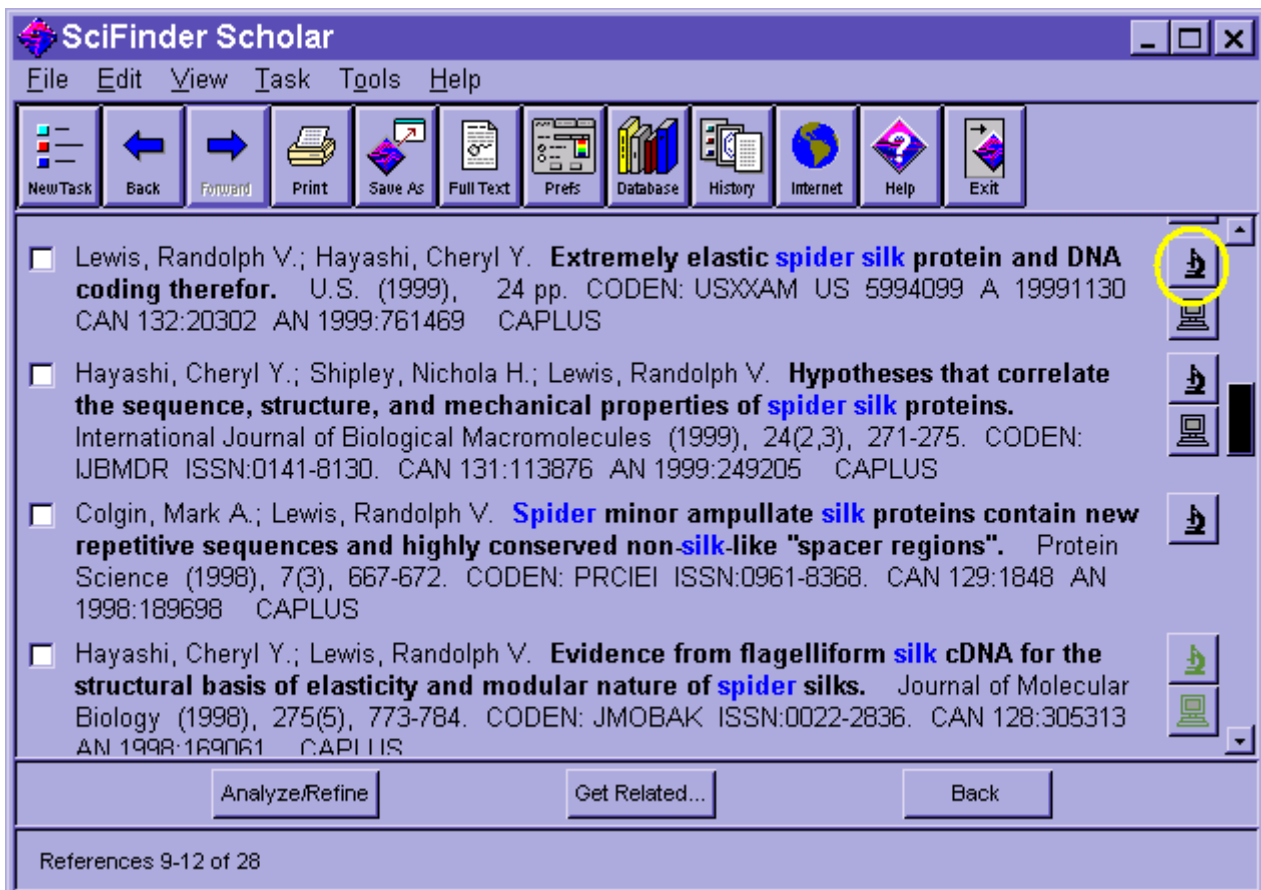
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Extremely elastic spider silk protein and DNA coding therefor. Lewis, Randolph V.; Hayashi, Cheryl Y. (The University of Wyoming, USA). U.S. (1999), 24 pp. CODEN: USXXAM US 5994099 A 19991130 Patent written in English. Application: US 98-10928 19980122. Priority: US 97-70094. CAN 132:20302 AN 1999:761469 CAPLUS

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
US 5994099 19980122	A	19991130	US 1998-10928	
<u>Priority Application</u>				
US 1997-70094P	P	19971231		

Abstract

Cloned DNA encoding spider flagelliform silk proteins described. The translated amino acid sequence of the cloned cDNA shows that the flagelliform silk protein is composed largely of repeated motifs. The dominant motif of this protein is Gly-Pro-Gly-Gly-X, which can appear up to 63 times in tandem arrays. This motif likely forms Pro2-Gly3 type II β -turns. The resulting series of concatenated β -turns are thought to form a helix (β -spiral). The present inventors propose that this spring-like β -spiral is the basis of the elasticity of silk. Some sequences are claimed but not provided.

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(abundance in silk protein; extremely elastic spider silk protein and DNA coding therefor)

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Registry Number: 147-85-3

Absolute stereochemistry. Rotation (-).

Formula: C5 H9 N O2

CA Index Name: L-Proline (9CI)

Other Names: Proline, L- (8CI); (-)-(S)-Proline; (-)-2-Pyrrolidinecarboxylic acid; (-)-Proline; (S)-2-Pyrrolidinecarboxylic acid; (S)-Proline; 2-Pyrrolidinecarboxylic acid; 2-Pyrrolidinecarboxylic acid, (S)-; L-(-)-Proline; L- α -Pyrrolidinecarboxylic acid; L-Pyrrolidine-2-carboxylic acid; Proline

-- Properties --

<u>Property</u>	<u>Calculated Value</u>	<u>Condition</u>	<u>Note</u>
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H acceptors	3		(1) ACD
Molecular Weight	115.13		(1) ACD

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