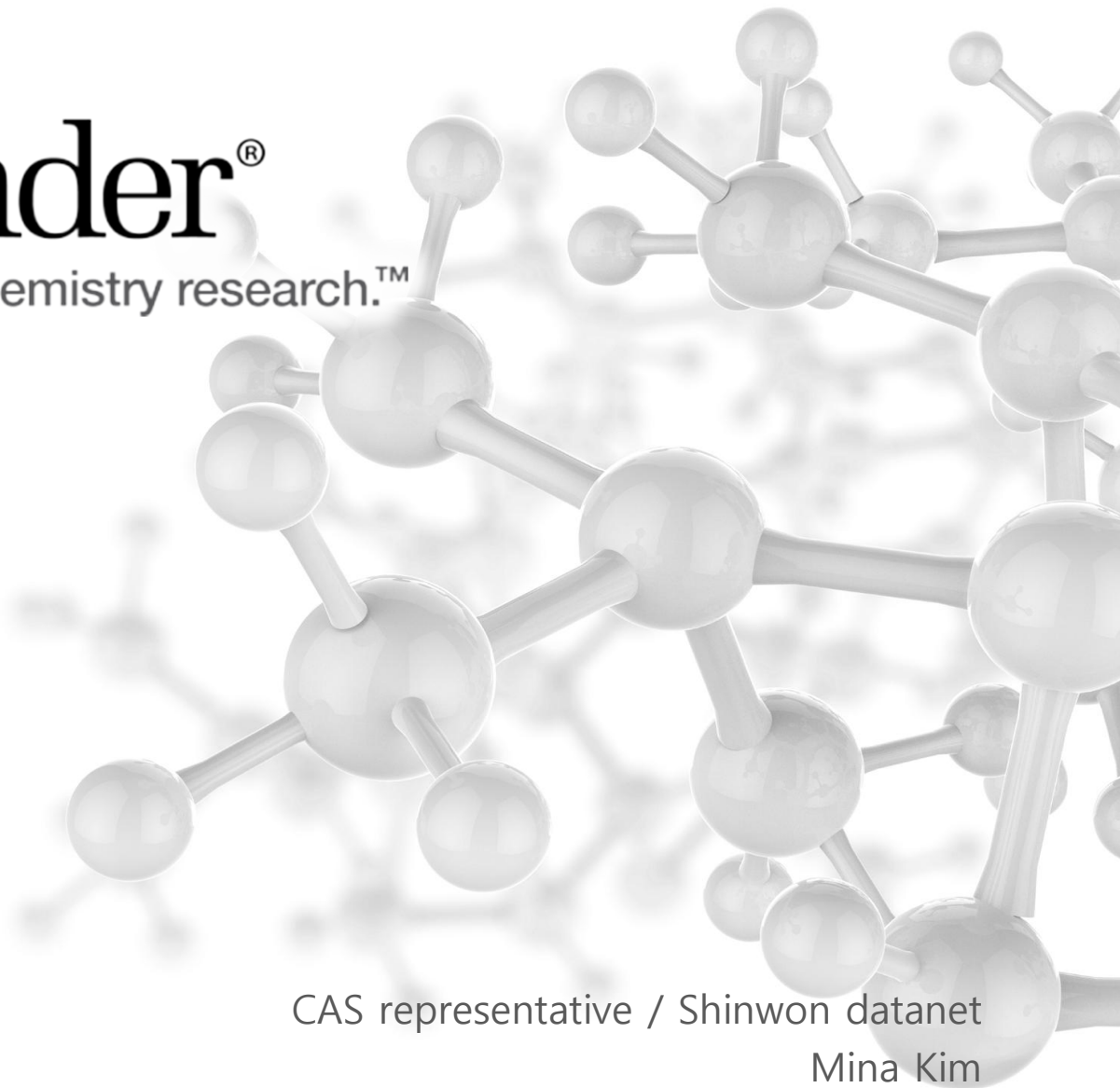




SciFinder[®]

The choice for chemistry research.[™]

2015



CAS representative / Shinwon datanet

Mina Kim





Reference Searching

문헌 검색 첫 화면

The screenshot displays the SciFinder search interface. At the top, the SciFinder logo is visible. Below it, there are navigation tabs: 'Explore', 'Saved Searches', and 'SciPlanner'. The main search area shows a search topic: "Research Topic 'silver nanoparticles and nanow...'". A red box labeled '1' highlights the 'REFERENCES' section in the left sidebar, which includes options like 'Research Topic', 'Author Name', 'Company Name', 'Document Identifier', 'Journal', 'Patent', and 'Tags'. A red box labeled '2' highlights the search input field containing the text 'silver nanoparticles and nanowires'. Below the input field, there are examples of search results: 'The effect of antibiotic residues on dairy products' and 'Photocyanation of aromatic compounds'. A blue 'Search' button is present, along with an 'Advanced Search' link. A red box labeled '3' highlights the advanced search filters on the right, which include 'Publication Years', 'Document Types' (with checkboxes for Biography, Book, Clinical Trial, Commentary, Conference, Dissertation, Editorial, Historical, Journal, Letter, Patent, Preprint, Report, Review), 'Languages' (with checkboxes for Chinese, English, French, German, Italian, Japanese, Polish, Russian, Spanish), 'Author' (with fields for Last Name, First, and Middle), and 'Company' (with a text field and examples like 'Minnesota Mining and Manufacturing' and 'DuPont').

문헌 검색결과 화면

The screenshot shows the SciFinder search results page for the topic "silver nanoparticles". The interface includes a navigation bar with "Explore", "Saved Searches", and "SciPlanner". A search bar at the top right contains the text "4". Below the navigation bar, the search topic is displayed as "Research Topic 'silver nanoparticles nanow...' > references (1223)".

The main content area is divided into several sections:

- REFERENCES**: A section with a "2" in a yellow box, containing buttons for "Get Substances", "Get Reactions", "Get Related Citations", and "Tools".
- Analyze**: A section with a "1" in a yellow box, containing a table of authors and their citation counts. The authors listed are Lee Shuit Tong (24), Xia Younan (14), Sun Yugang (13), Tsukruk Vladimir V (11), Wang Hui (11), Wong Ning Bew (9), Boukherroub Rabah (8), Gunawidjaja Ray (8), and He Yao (8).
- Sort by**: A dropdown menu set to "Publication Year".
- 0 of 1223 References Selected**: A status bar with navigation arrows and "Page: 1 of 62".
- Reference 1**: A detailed view of a reference titled "1. A combination of 'top-down' and 'bottom-up' approaches in the fabrication of 'nano bridges'". The authors are Sahoo, R. K.; Damodar, D.; Jacob, C. The reference is from the Journal of Materials Science: Materials in Electronics (2015), 26(1), 435-440. The abstract describes a two-step vertical growth of silicon nanowires (SiNWs) and the lateral growth of a bridging network of carbon nanotubes (CNTs) across the SiNWs.
- Reference 2**: A partial view of a second reference titled "2. A method..." by Ling, Yun, and From Faming Z...

At the top right, there is a "4" in a yellow box and a red-bordered box containing "Save", "Print", and "Export" buttons.

1. 문헌 간략 정보

2. **Analyze**: 저자명, CAS번호, 문서종류, 저널명, 언어, 출판년도 등으로 분류화

Refine: 주제어, 저자명, 기관명, 문서종류, 출판년도 등으로 직접 재 검색

3. **Get Substances**: 물질정보 확인

Get Reactions: 반응정보 확인

Get Related Citations: 인용/ 피인용 정보 확인

Get Full Text: 원문 링크

Tools: 중복결과 삭제/ 검색결과 조합/ 태그입력

4. **Save, Print, Export**: 검색결과 저장, 인쇄, 다운로드

검색 결과 분석

REFERENCES ?

Analyze Refine Categorize

Analyze by: ?

Author Name

Ranjan Mukesh	4
Facsko Stefan	3
Akil S	2
Bachelot R	2
Balan L	2
Barboza Flores Marcelino	2
Chen Bin	2
Hong Franklin Chau Nan	2
Hong Seung Hyun	2
Jiang Chaoyang	2

Show More

Categorize ?

1. Select a heading and category.

Category Heading	Category
All	Substances (210)
Biotechnology	Topics (2)
General chemistry	
Technology	
Physical chemistry	
Polymer chemistry	
Synthetic chemistry	
Catalysis	
Analytical chemistry	
Biology	
Genetics & protein chemistry	
Environmental chemistry	

2. Select index terms of interest.

Index Terms	Count
<input checked="" type="checkbox"/> Silver	14
<input checked="" type="checkbox"/> Nanoparticles	12
<input checked="" type="checkbox"/> Nanowires	11
<input checked="" type="checkbox"/> Silver nitrate	4
<input type="checkbox"/> Ethylene glycol	3
<input type="checkbox"/> Polyvinylpyrrolidone	3
<input type="checkbox"/> Anisotropy	2
<input type="checkbox"/> Diffusion	2
<input type="checkbox"/> Electrodes	2
<input type="checkbox"/> Electron beam evaporation	2
<input type="checkbox"/> Gold	2
<input type="checkbox"/> Nanostructures	2
<input type="checkbox"/> Oxidation	2
<input type="checkbox"/> Particle shape	2
<input type="checkbox"/> Rhodamine 6G	2
<input type="checkbox"/> SERS (Raman scattering)	2

Selected Terms

Click 'x' to remove the category from 'Selected Terms'

All > Substances (4 Terms)

All > Substances > 4 Index Term(s) Selected

OK Cancel

Author Name
 CAS Registry Number
 CA Section Title
 Company-Organization Database
 Document Type
 Index Term
 CA Concept Heading
 Journal Name
 Language
 Publication Year
 Supplementary Terms

- Categorize:** 관심분야를 제한하여 결과 추출
- Analyze:** 검색결과 분류
(저자명, 색인, 문서종류, 언어, 출판연도 별)

결과 내 재검색

Analyze **Refine** Categorize

Refine by: ?

Research Topic
 Author
 Company Name
 Document Type
 Publication Year
 Language
 Database

Research Topic

Examples:

The effect of antibiotic residues on dairy products

Photocyanation of aromatic compounds

Refine

1. Refine: 결과 내 재검색
(주제어, 저자명, 기관명, 문서종류, 출판연도, 언어)

Author Name

Last *

First

Middle

Company Name

Examples:

3M

DuPont

Publication Year(s)

Examples: *1995, 1995-1999, 1995-, -1995*

Database






CAPLUS
 MEDLINE

Language(s)

Chinese
 English
 French
 German
 Italian
 Japanese
 Polish
 Russian
 Spanish

Document Type(s)

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

REFERENCE DETAIL   Get Substances  Get Related Citations  Link to Other Sources **4**  Send to SciPlanner



1 [Return](#) [Previous](#) [Next](#) **2**

1. Multifunctionalized nano- or microparticles joined to PNA/DNA chains with attached biomolecules

By: Del Pino Gonzalez de la Higuera, Pablo Alfonso; Grazu Bonavia, Maria Valeria; Martinez de la Fuente, Jesus; Santos Martinez de Laguna, Ruben; Sanchez Espinel, Christian
Assignee: Universidad de Zaragoza, Spain; Fundacion Agencia Aragonesa para la Investigacion y el Desarrollo (ARAID); Nanoimmunotech, Srl

The present invention relates to prepn. of a multifunctionalized nanoparticle comprised of a core particle conjugated to a DNA or PNA chain and a mol. of interest conjugated to another complementary DNA or PNA chain. The hybridization of the complementary DNA/PNA "NIT zipper" results in a multifunctionalized nanoparticle. Examples discuss prepn. of several types of particles and their functionalization.

Patent Information

Patent No.	Kind	Language	Date	Application No.	Date
ES 2397909	A1		Mar 12, 2013	ES 2011-30713	May 5, 2011
WO 2012150373 	A1	Spanish	Nov 8, 2012	WO 2012-E570318	May 4, 2012
EP 2706354 	A1	English	Mar 12, 2014	EP 2012-731017	May 4, 2012

Priority Application

ES 2011-30713	A	May 5, 2011
WO 2012-E570318	W	May 4, 2012

Indexing

Biochemical Methods (Section9-2)

Section cross-reference(s): 3, 14, 63

Concepts


Magnetic resonance

agents of contrast of; prepn. m... incorporating PNA/DNA NIT zipper markers/labels or other coatings

Functional groups

alkyne; prepn. multifunctionalized NIT zipper linked to biomols., th... of interest, and uses

Substances **3**

7440-21-3 Silicon, biological studies 

QUICK LINKS

0 Tags, 0 Comments

PATENT INFORMATION

Mar 12, 2013
ES 2397909
A1

APPLICATION

May 5, 2011
ES 2011-30713

PRIORITY

May 5, 2011
ES 2011-30713
May 4, 2012
WO 2012-E570318

SOURCE

Span.
19pp.; Chemical Indexing
Equivalent to 157:702505
(WO)
Patent
2013
CODEN:SPXXAD

- 해당 문헌의 제목, 저자명, 초록
- 해당문헌의 추가 정보: 서지정보, 출처, 언어 등
- Indexing, Concepts, Substance, Citation: 색인, 연구주제, 물질 및 인용정보 확인
- 물질, 인용정보, 원문링크

Link, Save, print or export

1

Export

For:

Citation Manager

- Citation export format (*.ris)
- Quoted Format (*.txt)
- Tagged Format (*.txt)

Offline review

- Portable Document Format (*.pdf)
- Rich Text Format (*.rtf)
- Answer Keys (*.txt)

Saving locally

- Answer Key eXchange (*.akx)

Details:

File Name: *

Reference_04_29_2014_115908

Export Cancel

1. Multifunctionalized nano- or microparticles

By: Del Pino Gonzalez de la Higuera, Pablo Alfonso; Grazu B...
Sanchez Espinel, Christian

Assignee: Universidad de Zaragoza, Spain; Fundacion Agenc...

The present invention relates to prepn. of a multifunction...
and a mol. of interest conjugated to another complemen...
zipper" results in a multifunctionalized nanoparticle. Exa...

Patent Information

Patent No.	Kind	Language
ES 2397909	A1	
WO 2012150373 PatentPak	A1	Spanish
EP 2706354 PatentPak	A1	English

Priority Application

ES 2011-30713	A	May 5, 2011
---------------	---	-------------

QUICK LINKS

0 Tags, 0 Comments

PATENT INFORMATION

Mar 12, 2013
ES 2397909
A1

APPLICATION

May 5, 2011
ES 2011-30713

PRIORITY

May 5, 2011
ES 2011-30713
May 4, 2012
WO 2012-ES70318

1. 해당화면 링크생성, 저장, 인쇄, 다운로드



Substance Searching

물질 검색

The screenshot displays the SciFinder interface. On the left, a sidebar contains navigation menus for 'REFERENCES' and 'SUBSTANCES'. The 'SUBSTANCES' menu is highlighted with a red box and a yellow '1' in a box. The 'SUBSTANCES' menu includes: Chemical Structure, Markush, Molecular Formula, Property, and Substance Identifier. The 'Chemical Structure' option is selected. In the main content area, the 'SUBSTANCES: CHEMICAL STRUCTURE' section is visible. A 'Structure Editor' window is highlighted with a red box and a yellow '2' in a box. The 'Structure Editor' window has tabs for 'Java' and 'Non-Java' and contains the text 'Click to Edit'. To the right of the 'Structure Editor' window, there are search options: 'Search Type' with radio buttons for 'Exact Structure', 'Substructure' (selected), and 'Similarity'; and a checkbox for 'Show precision a...'. Below these options is a 'Java Structure Ed' section with the text 'Having issues with' and 'To switch between'. At the bottom of the main content area, there is a blue 'Search' button and a link for 'Advanced Search'.

1. SUBSTANCES: 물질 검색

- Chemical Structure: 구조식
- Markush: 마커시 구조
- Molecular Formula: 분자식
- Property: 물성
- Substance Identifier: 물질명, CAS번호

2. Structure Editor: 구조식 tool

구조식 검색: Structure Editor

Structure Editor

Draw or change atoms or bonds. [Shortcut Keys](#)

Atom Short

-X =R

1-4 Cl

Scale 100

C(O)CH3 C H O S N P Cl Br F I Si

C₉ H₈ O₄ (query) 180, 16

Drawing Editor:

- Structure
- Reaction
- Markush

Get substances that match your query using:

- Exact search
- Substructure search
- Similarity search

확인

취소

1. 검색 옵션

- **Exact search:**
똑같은 구조
- **Substructure search:**
하부 구조
- **Similarity search:**
유사 구조

물질 상세 정보

Substance Identifier "aspirin" > substances (1) > 50-78-2

SUBSTANCE DETAIL [?](#)

 Get References

 Get Reactions

 Get Commercial Sources

 Send to SciPlanner

[Return](#)

CAS Registry Number 50-78-2

~36,068   ~163 

C₉ H₈ O₄
Benzoic acid, 2-(acetyloxy)-

Molecular Weight
180.16

pKa (Predicted)
Value: 3.48±0.10 | Condition: Most Acidic Temp: 25 °C

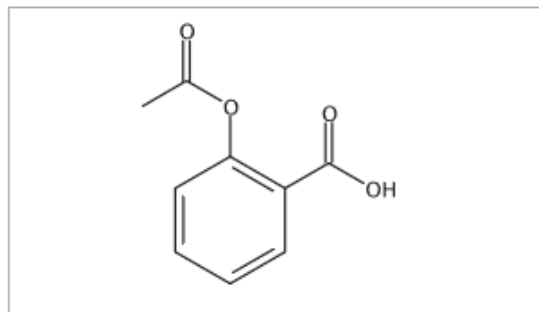
Melting Point (Experimental)
Value: 135 °C

Boiling Point (Experimental)
Value: 197-200 °C | Condition: Press: 7 Torr

Density (Experimental)
Value: 1.40 g/cm³

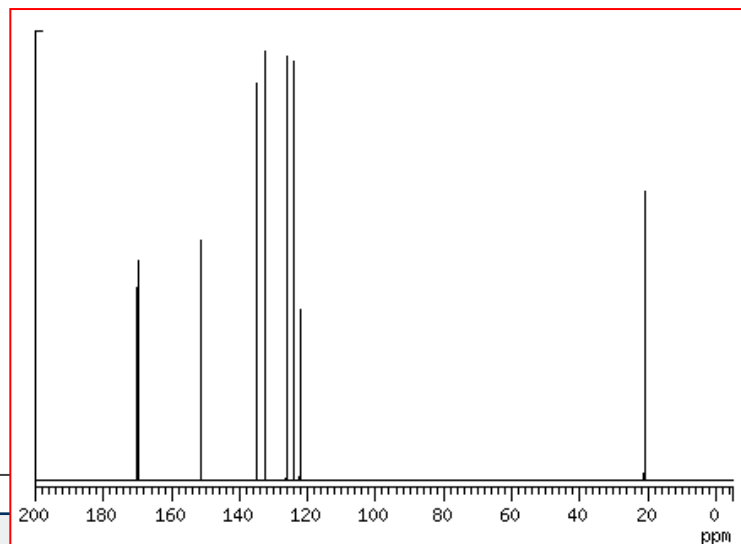
Other Names
Rhodine (7CI)
Salicylic acid acetate (8CI)
2-(Acetyloxy)benzoic acid
2-Acetoxybenzoic acid
2-Carboxyphenyl acetate

[View more...](#)



1. Get References: 문헌 정보
2. Get Reactions: 반응 정보
3. Get Commercial Sources: 공급업체 정보 보기
4. Send to SciPlanner: SciPlanner 로 보내기

물질 상세 정보



▶ EXPERIMENTAL PROPERTIES

▶ EXPERIMENTAL SPECTRA

▶ PREDICTED PROPERTIES

▶ PREDICTED SPECTRA

▶ REGULATORY INFORMATION

▶ BIOACTIVITY INDICATORS

▶ TARGET INDICATORS

▶ CAS REFERENCE ROLES

▶ ADDITIONAL DETAILS

1. Experimental Properties

2. Experimental Spectra

3. Predicted Properties

4. Predicted Spectra

5. Regulatory Information

6. Bioactivity Indicators

7. Target Indicators

8. CAS Reference Roles

9. Additional Details

2

3

1,2. 실측치

3,4. 예측치

5. 규제정보

6,7. 생화학 정보

반응식 검색 결과

Chemical Structure substructure > substances (2335) > get reactions (140)

REACTIONS ⓘ

Get References Tools ▾

Send to SciPlanner

Analyze Refine

Group by: No Grouping ▾ Sort by: Accession Number ▾ ↓

Display Options

Analyze by: ⓘ

Reagent ▾

H₂O 20

NaHCO₃ 9

H₂ 6

Pb(OAc)₂ 5

SnCl₂ • 2H₂O 5

Et₃N 4

O₂ 4

DCC 3

C₅H₅N 2

H₂O₂ 2

Show More

0 of 140 Reactions Selected

1. View Reaction Detail ⓘ Link ⚙ Similar Reactions 1

Single Step Hover over any structure for more options.

2 ~193 ⓘ

~94 ⓘ

CO₂H

OH

Cl - C(=O) - CH₃

CO₂H

OAc

Overview

Steps/Stages

1.1 C:H₂SO₄, rt; rt → 85°C; 15 min, 85°C

by one step: 1

1. View details

- View Reaction Detail
- Link
- Similar Reactions

2. 공급업체 정보



Reaction Searching

반응식 검색

REFERENCES

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

SUBSTANCES

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

REACTIONS

- Reaction Structure

REACTIONS: REACTION STRUCTURE

Structure Editor:

Java Non-Java

Click to Edit

Search Type:

- Allow variability only as specified
- Substructure

Import CXF

Search

Advanced Search

ChemDraw

Launch a SciFinder substance or reaction search directly from ChemBioDraw Ultra 14. [Learn More](#)

반응식 검색: Reaction Editor

Reaction Editor

Click a reaction participant. A list of roles appears.
Click a reaction role and click OK.

Atom Short

-X =R

1-4 Cl

alchc ketor alder

Me-NH-OH
reactant

reactant

Reaction Roles

Select a role for the structure fragment:

product

reactant

reagent

reactant/reagent

any role

OK Cancel

Drawing Editor:

Structure

Reaction

Markush

Get reactions where the structure(s) are:

Variable only at the specified positions

Substructures of more complex structures

확인 취소

Scale 100

C H₅ N O . C₅ H₈ O (reaction q

47,06 , 84,12

반응식 검색 결과

Explore ▾ Saved Searches ▾ SciPlanner Save Print Export

Reaction Structure substructure > reactions (595)

REACTIONS ⓘ Get References Tools ▾ Send to SciPlanner

Analyze Refine

Group by: No Grouping ▾ Sort by: Relevance ▾ ↓

0 of 595 Reactions Selected Display Options Page: 1 of 40

Analyze by: ⓘ
 Reagent ▾

H ₂ O	431
TiCl ₄	420
NaOMe	378
Cs ₂ CO ₃	207
NaH	191
NaHCO ₃	78
Et ₃ N	77
C ₅ H ₅ N	56
H ₂ O ₂	56
HCl	54

[Show More](#)


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

Single Step *Hover over any structure for more options.*

H₃C-NH-OH

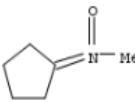
• HCl
~74

+



~103

→



71%

▼ Overview

Steps/Stages

1.1 R:Disodium carbonate, R:Na₂SO₄, 10 min, rt

Notes

green chemistry, no solvent, solid state, Reactants: 2, Reagents: 2, Steps: 1, Stages: 1, Most stages in any one step: 1

References

Fast method for synthesis of alkyl and aryl-N-methylnitrones
[Quick View](#) [Full Text](#)
 By Yavuz, Serkan et al
 From Molecules, 16, 6677-6683; 2011



Other functions

공급업체 검색 결과

SciFinder®

Explore Saved Searches SciPlanner

⚠ This chemical supplier information is provided on an "as is" basis. Please consult the suppliers for current information regarding pricing for any loss of profit, goodwill or any other damages arising out of the use of this information.

Substance Identifier "salicylic acid" > **1** Sources (1) > commercial sources (211)

COMMERCIAL SOURCES

Analyze

Analyze by: Commercial Source

Crescent Chemical Product List 11

Fluka 7

Ryan Scientific Intermediate and Building Block Compounds 7

Spectrum Chemicals Product List 6

Reagent World Product List 5

SIAL 5

Wako Pure Chemicals Product List 5

Acros Organics 4

Chem Service Product List 3

Commercial Source	Substance
1. 3B Scientific Corporation Product List United States	69-72-7 2-Hydroxybenzoic acid
2. 3B Scientific Corporation Product List United States	69-72-7 Salicylic acid
3. A Chemtek Product List United States	69-72-7 Salicylic acid
4. AAA Chemistry Stock Product List Hong Kong	
5. AB Chem Product List Canada	
6. Abblis Chemicals Product List United States	
7. ABCR Product List Germany	

1. 분류

- CAS번호
- 공급업체
- 판매 국가
- 공급업체 선호도
- 공급업체 web 지원 및 가격

2. 공급업체 정보

SIGMA-ALDRICH

206,000+ PRODUCTS 50+ SERVICES Featured INDUSTRIES

Hello, Sign in ACCOUNT 24/7 SUPPORT 0 Items ORDER

Korea (South) Home > S5922 - Salicylic acid

S5922 SIGMA
Salicylic acid
BioXtra, ≥99.0%
Synonym: 2-Hydroxybenzoic acid

MSDS SIMILAR PRODUCTS

CAS Number 69-72-7 Linear Formula 2(HO)C₆H₄CO₂H Molecular Weight 138.12
Beilstein Registry Number 774890 EC Number 200-712-3 MDL number MFCD00002439
PubChem Substance ID 24899681

POPULAR DOCUMENTS: SPECIFICATION SHEET (PDF) | FTNMR (PDF)

구매 Safety & Documentation Protocols & Articles 2 Peer-Reviewed Papers 115

속성

Related Categories	Acids, Acids & Bases, Aromatic Compounds, Bioactive Small Molecules, Cell Biology, 추가 사항
vapor density	4.8 (vs air)
vapor pressure	1 mmHg (114 °C)

가격 및 재고여부

SKU-Pack Size	확인가능여부	가격 (KRW)	수량
S5922-100G	배송 가능 30.04.2014 - FROM	124,000	0
S5922-500G	재고없음 Estimated delivery date 28.05.2014	285,000	0

2
Order from Source
500g, \$50

알림기능: Keep Me Posted alerts

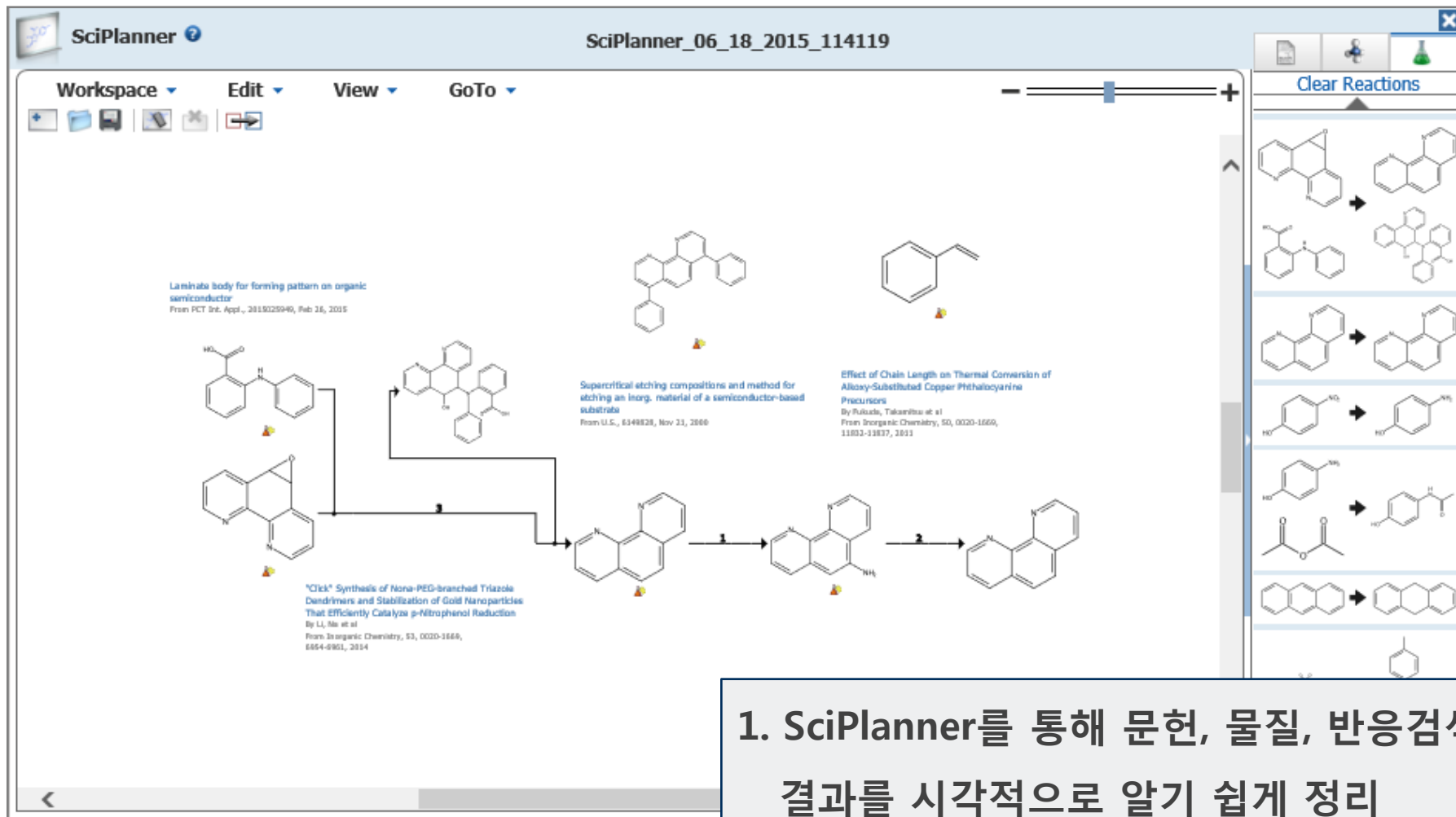
The screenshot shows the SciFinder web interface. At the top, there's a navigation bar with 'SciFinder' logo, 'Preferences | SciFinder Help', and 'Sign Out'. Below that, a menu bar includes 'Explore', 'Saved Searches', 'SciPlanner', 'Save', 'Print', and 'Export'. The main content area shows a search for 'Duloxetine' with 1459 references. A 'Create Keep Me Posted Alert' button is highlighted in pink. A dialog box titled 'Create Keep Me Posted Profile' is open, with a red border. It contains the following fields:

- Title:** * Required, containing 'Duloxetine references'.
- Description:** A text area with 'Characters Remaining: 1024'.
- Duration:** Expires On: May 14, 2014, with a 'Change' link.
- Frequency:** Send updates once every 'Week'.
- Exclude previously retrieved references.

Buttons for 'Create' and 'Cancel' are at the bottom of the dialog. In the background, a graph shows '시간 (분)' on the x-axis and a y-axis with values 0.0, 50.0, 100.0, 150.0. A legend includes 'Initial', '15일', '30일', '45일', and '60일'. A text box in the bottom right contains the following Korean text:

**CAS 데이터베이스에
관련정보가 업데이트되면
자동으로 저장**

나만의 연구실 구현 : SciPlanner



1. SciPlanner를 통해 문헌, 물질, 반응검색 결과를 시각적으로 알기 쉽게 정리
2. Retro-Synthesis 가능

CAS SciFinder 인허 계약

- ▶ 나는 고유한 로그인 ID 및 비밀번호를 다른 사람과 공유하지 않겠습니다.

*MACid (Media Access Control identifier): 컴퓨터의 물리적 주소

- ▶ 나는 최대 5 천 개의 기록만 저장하겠습니다.

- ▶ 나는 타 기관의 연구를 위해 검색 결과를 제공하거나,
대신하여 연구를 수행하지는 않을 것입니다.

- ▶ CAS 정보 사용 정책 더 보기

<http://www.cas.org/legal/infopolicy.html>

Thank you!



CAS Representative_신원데이터넷

Tel : 02) 326-3535

Mail to : cas@shinwon.co.kr