



Training



A division of the American Chemical Society

大

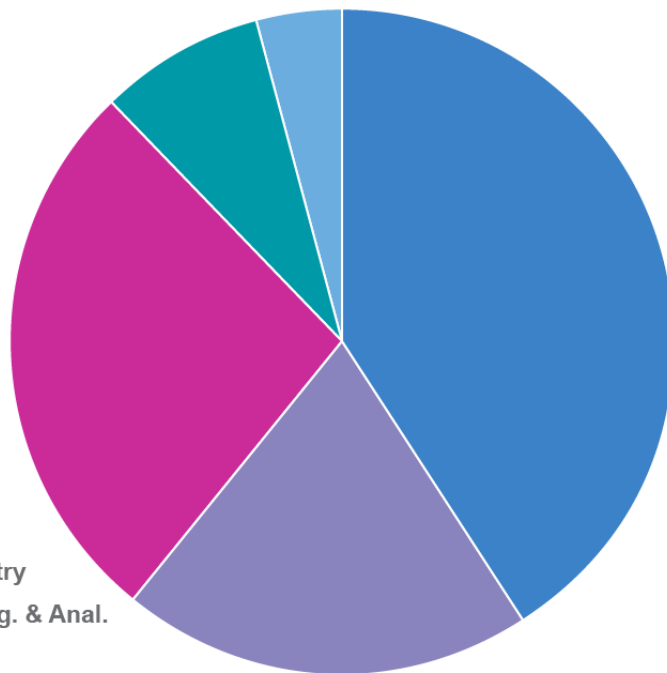
綱

1. 基本介紹
2. 進階功能介紹
3. 實際例子 Demo
4. 新功能介紹

基本介紹

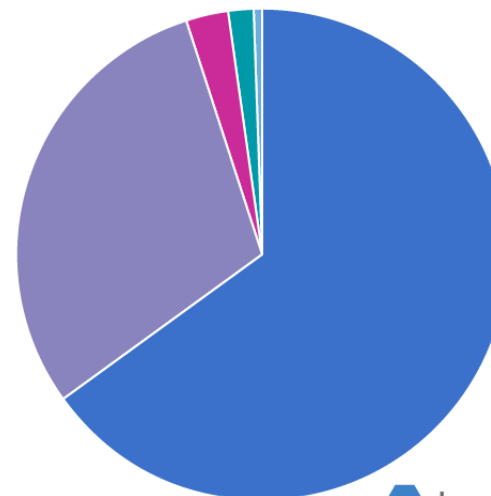
涵蓋範圍與領域

Discipline areas not in traditional chemistry **61%**



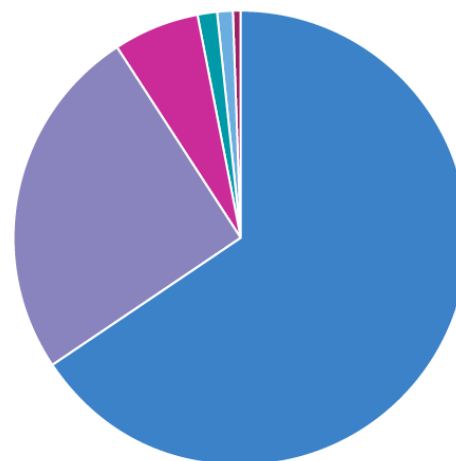
- Biochemistry
- Phys., Inorg. & Anal.
- Applied
- Macromolecular
- Organic

Disclosure types not published in journals **35%**



- Journal
- Patent
- Dissertation
- Conferences
- Technical Papers/Book Announcements

Original publication languages not in English **35%**



- English
- Chinese
- Japanese
- German
- Russian
- French/Spanish

基本功能介紹

The screenshot displays the SciFinder web interface. At the top, there is a navigation bar with 'Explore', 'Saved Searches', and 'SciPlanner'. On the left, a sidebar lists three main categories: REFERENCES, SUBSTANCES, and REACTIONS. Each category has a list of search criteria. Three callout boxes with pointers highlight specific search methods: '關鍵字查詢' (Keyword Search) points to the 'Research Topic' option under REFERENCES; '化學結構式(物質)查詢' (Chemical Structure (Substance) Search) points to the 'Chemical Structure' option under SUBSTANCES; and '反應查詢' (Reaction Search) points to the 'Reaction Structure' option under REACTIONS. The main content area shows a search input field, a 'Search' button, and a link to 'Advanced Search'. Examples of search terms are provided below the input field.

SciFinder®

Explore ▾ Saved Searches ▾ SciPlanner

REFERENCES

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

SUBSTANCES

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

REACTIONS

- Reaction Structure

REFERENCES: RE

Search

Advanced Search

Examples:
The effect of antibiotic residues on dairy products
Photocyanation of aromatic compounds

關鍵字查詢

化學結構式(物質)查詢

反應查詢

SciFinder®

Explore ▼ **Saved Searches ▼** SciPlanner

儲存功能

Saved Answer Sets
Keep Me Posted
History

SAVED ANSWER SETS

Saved Answer Sets
Keep Me Posted
History

☐ 0 of 54 Reference Answer Sets Selected

References (54) **Substances (23)** **Reactions (2)**

- ☐ Autosaved Reference Set (52)
An answer set was automatically saved because the session ended due to inactivity on Sun Aug 16 23:58:33 EDT 2015.
Opened saved answer set "DYY Lab" (52)
- ☐ TSRC Q (1)
2530-86-1
Patent "jp5682599" > references (1) > Conjugated diene polymer, method for producing conjugated diene polymer, and conjugated diene polymer composition for tires
- ☐ 345 (1148)
Markush substructure > references (1223) > Combine Reference Answer Sets "123 (388)" (1148)
- ☐ 123 (388)
Substance Identifier "2530-86-1" > substances (1) > get references (388)
- ☐ Sample of PP viewer (1)
Patent "wo2014018208" > references (1)



Explore ▾

Saved Searches ▾

SciPlanner

文獻自動搜尋

Saved Answer Sets

Keep Me Posted

History

KEEP ME POSTED

SAVED SEARCHES

Saved Answer Sets

Keep Me Posted

History

☐ 0 of 8 Profiles Selected

☐ LED

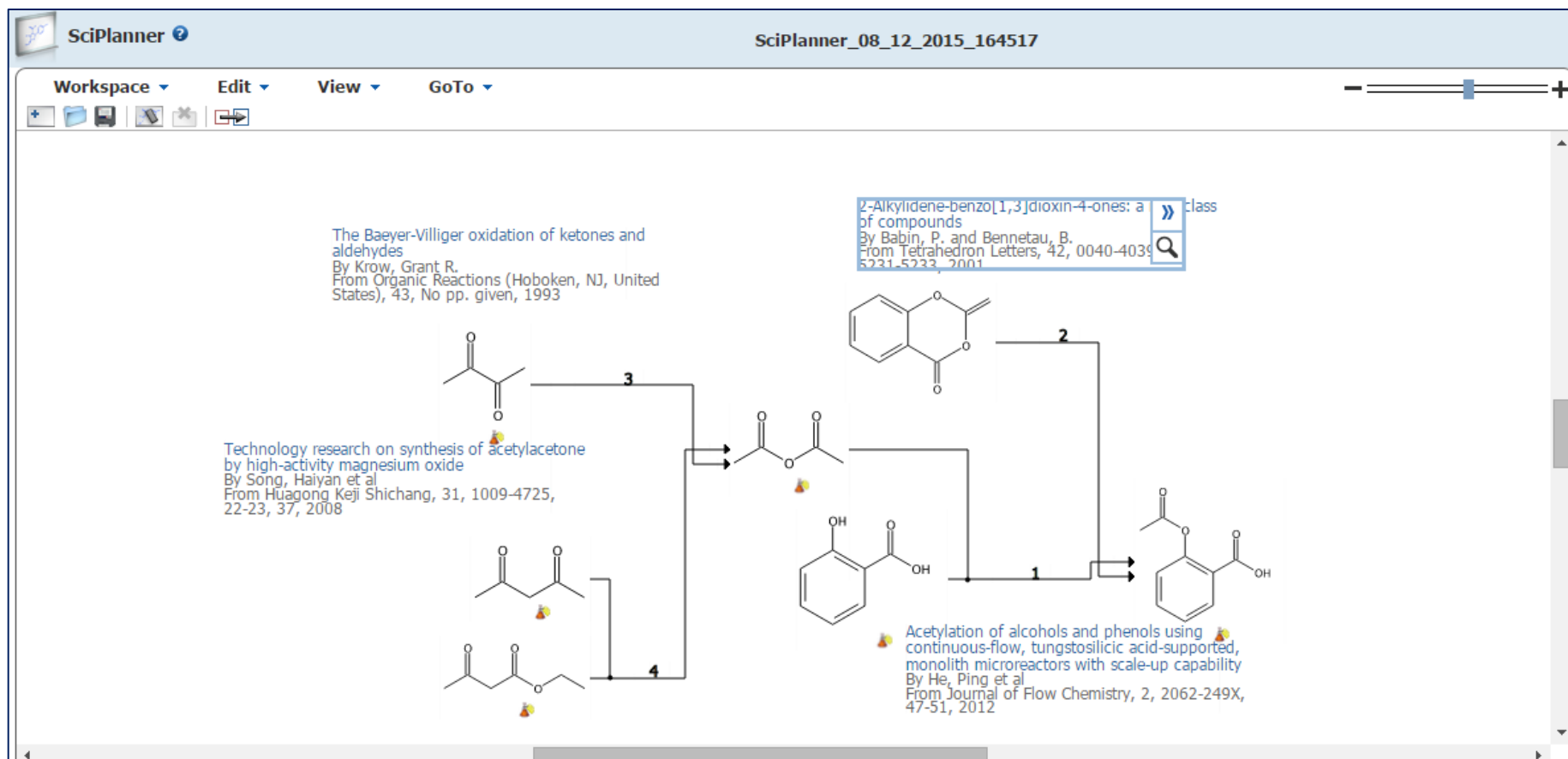
Search Strategy:

☐ Results Combine | Delete

☐ Aug 22, 2015 (13)	Link
☐ Aug 15, 2015 (3)	Link
☐ Aug 8, 2015 (6)	Link
☐ Aug 1, 2015 (7)	Link
☐ Jul 25, 2015 (13)	Link
☐ Jul 18, 2015 (8)	Link
☐ Jul 11, 2015 (17)	Link
☐ Jul 4, 2015 (6)	Link
☐ Jun 27, 2015 (15)	Link
☐ Jun 20, 2015 (13)	Link
☐ Jun 13, 2015 (7)	Link
☐ Jun 6, 2015 (11)	Link

Edit

自行建立合成途徑



文獻查詢結果頁面呈現


Preferences | SciFinder Help ▾ Sign Out

Welcome James F Corning

Explore ▾
Saved Searches ▾
SciPlanner
Save
Print
Export

Keep Me Posted "carbon nanotubes"[May 17, 2014] (234)

REFERENCES ?

 Get Substances
  Get Reactions
  Get Related Citations ▾
  Get Full Text
  Tools ▾
  Create Keep Me Posted Alert

 Send to SciPlanner

Analyze Refine Categorize

Analyze by: ?

Company-Organization ▾

East China Normal University, Peop Rep China 3

University of Toronto, Can 3

Arkema France, Fr 2

Beijing University of

Sort by: Accession Number ▾

0 of 234 References Selected

Page: 1 of 12

1. **In vivo biodistribution of platinum-based drugs encapsulated into multi-walled carbon nanotubes**

 Quick View
  Full Text

By Li, Jian; Pant, Aakash; Chin, Chee Fei; Ang, Wee Han; Menard-Moyon, Cedilia; Nayak, Tapas R.; Gibson, Dan; Ramaprabhu, Sundara; Panczyk, Tomasz; Bianco, Alberto; et al
 From Nanomedicine (New York, NY, United States) (2014), Ahead of Print. | Language: English, Database: CAPLUS

Carbon nanotubes (CNTs) are promising drug delivery systems due to their external functionalizable surface and their hollowed cavity that can encapsulate several bioactive mols. In this study, the chemotherapeutic drug cisplatin or an inert platinum(IV) complex were entrapped inside functionalized-multi-walled-CNTs and i.v. injected into mice to investigate the influence of CNTs on the biodistribution of Pt-based mols. The platinum levels in vital organs suggested that functionalized-CNTs did not affect cisplatin distribution, while they significantly enhanced the accumulation of Pt(IV) samp...

物質查詢結果頁面呈現

SUBSTANCE DETAIL

Get References

Get Reactions

[Return](#)

CAS Registry Number 1190196-77-0

~3

$C_{17}H_{29}FO_2S_2$

Ethanesulfonyl fluoride, 2-[[[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrien-1-yl]thio]-

Molecular Weight
348.54

Boiling Point (Predicted)
Value: 458.4±45.0 °C | Condition: Press: 760 Torr

Density (Predicted)
Value: 1.056±0.06 g/cm3 | Condition: Temp: 20 °C Press: 760 Torr

Double bond geometry as shown.

[Expand All](#) | [Collapse All](#)

TARGET INDICATORS

Indicators	References
Enzymes (all) > > > D-Serine dehydratase	1
Enzymes (all) > > > Prenylcysteine carboxymethyl esterase	3
Enzymes (all) > > > Serine protease	1

反應查詢結果頁面呈現

SciFinder®

Preferences | SciFinder Help | Sign Out

Explore | Saved Searches | SciPlanner | Save | Print | Export

REACTIONS ?

Get References | Tools | Send to SciPlanner

Analyze | Refine

Analyze by: Experimental Procedure

Experimental Procedures Available 58

Show More

Group by: No Grouping | Sort by: Accession Number

0 of 58 Reactions Selected

1. View Reaction Detail | Link | Similar Reactions

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

$$\text{HO}-\text{CH}_2-\underset{\text{OH}}{\text{CH}}-\text{CH}_2-\text{OH} \longrightarrow \text{HO}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{OH}$$

Overview

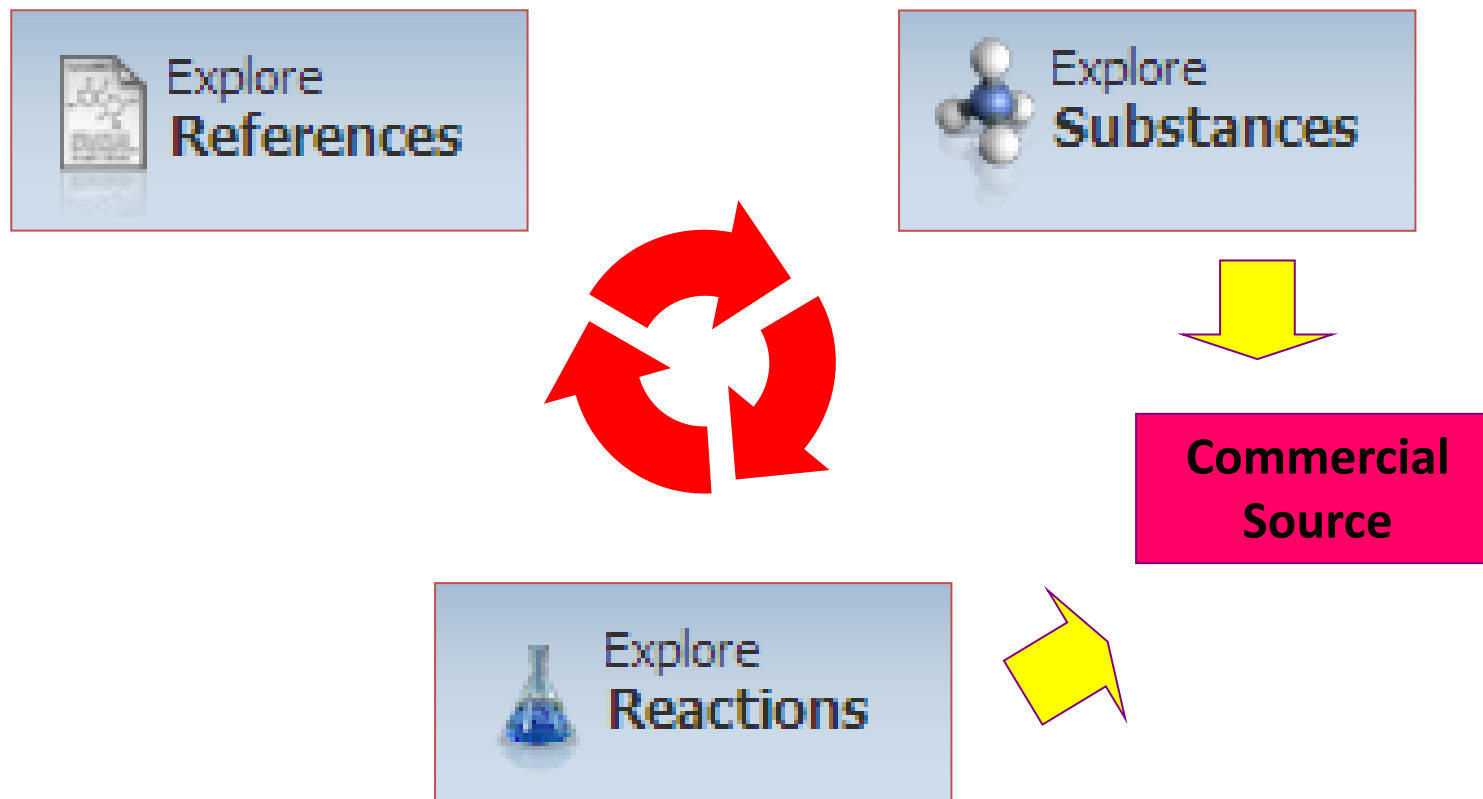
Steps/Stages	Notes
1.1 C:9077-68-3, S:H ₂ O, 48 h, rt	regioselective, fermentation, enzymic, biotransformation, whole cells of Lactobacillus sp. cultured from thin stillage expressing glycerol dehydratase used, 90% conversion, Reactants: 1, Catalysts: 1, Solvents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

References

Process for the conversion of glycerol to 1,3-propanediol by novel Lactobacillus strains isolated from stillage

By Reaney, Martin J. T. et al
From PCT Int. Appl., 2012045179, 12 Apr 2012

不同資料群可以互相轉換



進階功能介紹

進階功能運用 – Citing References

1

REFERENCES

Research Topic

Author Name

Company Name

Document Identifier

Journal

Patent

Tags

SUBSTANCES

Chemical Structure

Markush

Molecular Formula

Property

Substance Identifier

REACTIONS

Reaction Structure

REFERENCES: COMPANY NAME ?

National Taiwan Univ

Examples:

3M

DuPont

Search

2

REFERENCES ?

Analyze Refine Categorize

Refine by: ?

☐ Research Topic

☒ Author

☐ Company Name

☐ Document Type

☐ Publication Year

☐ Language

☐ Database

Author Name

Last *

First

Middle

Refine

3

Analyze

Refine

Categorize

Analyze by: ?

Author Name ▼

Yang Jye Shane 59

Huang Guan Jhih 13

Sun Wei Ting 12

Huang Shou Ling 11

Lin Ying Chih 11

Huang Hsin Hau 9

Peng Shie Ming 9

Yan Jyu Lun 9

Chao Ito 8

Lin Cheng Kai 8

Show More

Sort by: Citing References ▼

0 of 59 References Selected

Page: 1 of 3

1. Central-ring functionalization and application of the rigid, aromatic, and H-shaped pentiptycene scaffold

Q Quick View Other Sources

By Yang, Jye-Shane; Yan, Jyu-Lun

From Chemical Communications (Cambridge, United Kingdom) (2008), (13), 1501-1512. | Language: English, Database: CAPLUS

A review. The progress of pentiptycene chem. is reviewed. Pentiptycene belongs to the iptycene family and possesses a rigid, arom., and H-shaped scaffold. An important feature for pentiptycene vs. triptycene is the presence of a sterically shielded central benzene ring. Such a feature led to the use of pentiptycene as a conformational regulator and in the formation of functional mol.s., including fluorescent chemosensors, mol. machines, low dielec. const. materials, and porous solids. The synthesis of these materials relies on central-ring prefunctionalized pentiptycene building blocks. A useful approach toward the prepn. of these building blocks is the derivatization of pentiptycene quinone.

~77

2. Meta Conjugation Effect on the Torsional Motion of Aminostilbenes in the Photoinduced Intramolecular Charge-Transfer State

Q Quick View Other Sources

By Yang, Jye-Shane; Liao, Kang-Ling; Li, Chun-Yi; Chen, Mon-Yao

From Journal of the American Chemical Society (2007), 129(43), 13183-13192. | Language: English, Database: CAPLUS

The photochem. behavior of a series of trans-3-(N-aryl)stilbenes (m1, aryl = 4-substituted Ph with a substituent of cyano (CN), hydrogen (H), Me (Me), or methoxy (OM)) in both nonpolar and polar solvents is reported and compared to that of the corresponding para isomers (p1CN, p1H, p1Me, and p1OM). The distinct propensity of torsional motion toward a low-lying twisted intramol. charge-transfer (TICT) state from the planar ICT (PICT) precursor between the meta and para isomers of 1CN and 1Me reveals the intriguing meta conjugation effect and the importance of the reaction kinetics. Whereas the poor charge-redistribution (delocalization) ability through the meta-phenylene bridge accounts for the unfavorable TICT-forming process for m1CN, it is such a property that slows down the decay processes of fluorescence and photoisomerization for m1Me, facilitating the competition of the single-bond torsional reaction. In contrast, the quinoidal character for p1Me in the PICT state kinetically favors both fluorescence and photoisomerization but disfavors the single-bond torsion. The resulting concept of thermodynamically allowed

~56

3. Photoisomerization of the green fluorescence protein chromophore and the meta- and para-amino analogues

Q Quick View Other Sources

By Yang, Jye-Shane; Huang, Guan-Jhih; Liu, Yi-Hung; Peng, Shie-Ming

From Chemical Communications (Cambridge, United Kingdom) (2008), (11), 1344-1346. | Language: English, Database: CAPLUS

The Z → E photoisomerization and fluorescence quantum yields for the wild-type green fluorescence protein (GFP) chromophore (I) and its meta- and para-amino analogs (II and III) in aprotic solvents (hexane, THF, and acetonitrile) and protic solvents (methanol and 10-20% H₂O in THF) are reported. The dramatic decrease in the quantum yields on going from aprotic to protic solvents indicates the important role of solvent-solute hydrogen bonding in the nonradiative decay pathways. The enhanced fluorescence of II is

~54

進階功能運用 – 文獻導入EndNote

The screenshot displays the SciFinder interface with an 'Export' dialog box open. The dialog box is titled 'Export' and contains the following sections:

- Export:**
 - ☐ All
 - ☐ Selected
 - ☒ Range
 - Example: 2-20
- 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_08_27_2015_1600

At the bottom of the dialog box are 'Export' and 'Cancel' buttons. A red arrow points from the 'Export' button in the top right of the SciFinder window to the 'Export' button in the dialog box.

進階功能運用 – 購買化學物質



SciFinder®

Explore ▾ Saved Searches ▾ SciPlanner

Substance Identifier "65017-57-4" > substances (1) > 65017-57-4

SUBSTANCE DETAIL ⓘ

Get References Get Reactions Get Commercial Sources

Return

CAS Registry Number 65017-57-4

~35 ~51

$C_{10}H_{22}N_2$

4-Piperidinemethanamine, 1-butyl-

Molecular Weight
170.30

pKa (Predicted)
Value: 10.13±0.29 | Condition: Most Basic Temp: 25 °C

Boiling Point (Predicted)
Value: 225.1±8.0 °C | Condition: Press: 760 Torr

Density (Predicted)
Value: 0.883±0.06 g/cm3 | Condition: Temp: 20 °C Press: 760 Torr

Other Names

- 1-Butyl-4-(aminomethyl)piperidine
- 1-Butyl-4-piperidinemethanamine
- 1-Butyl-4-piperidylmethanamine
- 1-Butylpiperidin-4-ylmethanamine
- N-Butyl-4-piperidylmethanamine

Get References Tools ▾

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

0 of 6 Reactions Selected

1. View Reaction Detail ⓘ Link ⓘ Similar Reactions

Single Step Hover over any structure for more options.

Overview

Steps/Stages

- 1.1 R:KOH, S:PhMe, 12 h, 80°C
- 1.2 R:HCl, S:H₂O, 1 h, 50°C

REFERENCES

Research Topic
Author Name
Company Name
Document Identifier
Journal
Patent
Tags

SUBSTANCES

Chemical Structure
Markush
Molecular Formula
Property

Substance Identifier

REACTIONS

Reaction Structure

SUBSTANCES: SUBSTANCE IDENTIFIER ?

50-18-0

Enter one per line.

Examples:

50-00-0

999815

Acetaminophen

Search

若知道物質CASRN(CAS註冊碼)或商品名、俗名、IUPAC命名，可使用物質檢索 Substance Identifier此項功能

Analyze

Refine

Analyze by: ?

Substance Role

Analytical Study

1

Biological Study

1

Formation, Nonpreparative

1

Miscellaneous

1

Occurrence

1

Preparation

1

Process

1

Properties

1

Prophetic in Patents

1

Reactant or Reagent

1

Show More

Sort by: CAS Registry Number

0 of 1 Substance Selected

1. 50-18-0

~27734

~69

C₇ H₁₅ Cl₂ N₂ O₂ P

2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl) tetrahydro-, 2-oxide

Regulatory Information

Spectra

Experimental Properties

此圖示表示該物質在市場上可購買到。點擊該圖示可獲取此物質商品來源廠商資訊。

單擊第一行任一標題，可重新排序商家。

例如:點擊 Purity (純度)，商品來源將按照物質純度排列。標示最高純度的商家排列在最前方。

Analyze by: Commercial Source

Sort by: Preferred Sources ↑

0 of 69 Commercial Sources Selected

Page: 1 of 4

Commercial Source	Substance	Purity	Quantity	Purchasing Details	Stock Status	Ships Within
1. 3B Scientific Corporation Product List United States Set Preference	50-18-0 Cyclophosphamide		Grams	50g, \$500 100g, \$750	Intermittently available	4 weeks
2. A Chemtek Product List United States Set Preference	50-18-0 Cyclophosphamide				Typically in stock	
3. AAA Chemistry Stock Product List Hong Kong Set Preference	50-18-0 methyl 3-(diethylamino)butanoate	90-95%		Bulk	Typically in stock	2 weeks
4. Abcam Biochemicals Product List United Kingdom Set Preference	50-18-0 N,N-Bis(2-chloroethyl)tetrahydro-2H-1,3,2-oxazaphosphorin-2-amine 2-oxide	>=99%	Milligrams	Order from Source 50.000mg, \$35.00 Bulk	Typically in stock	1 week
5. ACC Corp. Catalog United States Set Preference	50-18-0 CYCLOPHOSPHAMIDE		Grams	1g 2.5g 5g		
6. AKos Building Blocks Product List Germany Set Preference	50-18-0 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide			Screening	Typically in stock	2 weeks
7. AldrichCPR United States Set Preference	50-18-0 N,N-bis(2-chloroethyl)-1,3,2-oxazaphosphinan-2-amine 2-oxide		Milligrams	Order from Source 25 mg Screening	Typically in stock	
8. Amatek Chemical Catalog	50-18-0		Grams	1g		

分析與排序商品來源

Analyze

Analyze by: ?

- Bulk
- Bulk
- CAS Registry Number
- Commercial Source
- Country
- Order from Source
- Preferred Sources
- Purity
- Quantity
- Screening
- Ships Within
- Stock Status

查看哪些廠商有做公斤以上的量 如:噸

Commercial Source	Substance	Purity	Quantity	Purchasing Details
1. ChemScene Chemscene Product List United States	50-18-0 Cyclophosphamide	95-98%	Milligrams	100mg, USD 80 200mg, USD 150 Bulk Screening

廠商依照國家分類

Analyze by: ?

Country

United States	52
United Kingdom	11
China	9
Hong Kong	7
Germany	3
Netherlands	3
Austria	2
Canada	2
France	2
Czech Republic	1

Show More

分類可線上購物的廠商

Commercial Source	Substance	Purity	Quantity	Purchasing Details	Stock Status	Ships Within
3. AldrichCPR United States Set Preference ▼	50-18-0 N,N-bis(2-chloroethyl)-1,3,2-oxazaphosphinan-2-amine 2-oxide		Milligrams	Order from Source 25 mg Screening	Typically in stock	

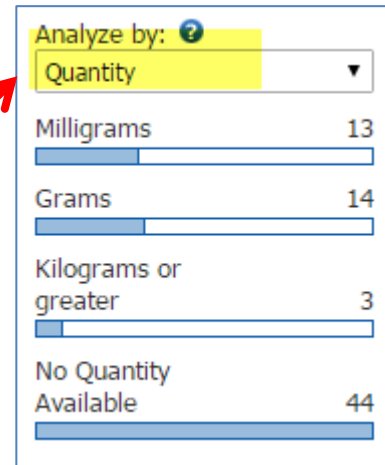
Analyze

Analyze by: ?

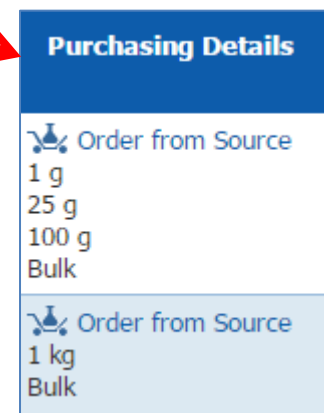
- Purity
- Bulk
- CAS Registry Number
- Commercial Source
- Country
- Order from Source
- Preferred Source
- Purity**
- Quantity
- Screening
- Ships Within
- Stock Status

Purity 依照純度排列

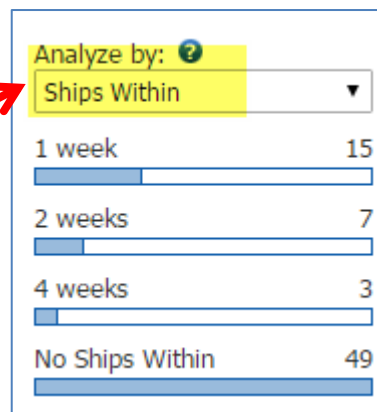
Quantity 容量大小分類



Screening 包裝與價格分類



Ships Within 到貨時間



Stock Status 庫存狀態

指定喜愛的廠商

Commercial Source	Substance	Purity	Quantity	Purchasing Details	Stock Status	Ships Within
☐ 1. ApexBio Technology Product List United States Set Preference ▼	50-18-0  Cyclophosphamide	95-98%	Milligrams	 Order from Source 100mg, \$80 Bulk Screening	Maintained in stock	1 week
☐ 2. Aurum Pharmatech Product List United States Set Preference ▼	50-18-0  Cyclophosphamide	95-98%	Grams	 Order from Source 2.5 G, USD 160 5 G, USD 236.44 25 G, USD 663.58 100 G, USD 1888.99 Bulk	Maintained in stock	1 week
☐ 3.  Chemscene Product List United States Set Preference ▼	50-18-0  Cyclophosphamide	95-98%	Milligrams	100mg, USD 80 200mg, USD 150	Maintained in stock	1 week

往後每次查詢此廠商皆“會”
在結果頁面第一個出現

☐ 3.  Chemscene Product List United States Set Preference ▼	50-18-0  Cyclophosph
☐ 4.  Preferred  Non-Preferred No Preference	Product List 50-18-0  Clafen(Cyclo

Commercial Source
☐ 1.  Chemscene Product List United States  Preferred ▼

指定黑名單的廠商

0 of 78 Commercial Sources Selected

Commercial Source	Substance	Purity	Quantity
☐ 1. ChemScene Chemscene Product List United States ✔ Preferred ▼	50-18-0 Cyclophosphamide	95-98%	Milligrams
☐ 2. ACC Corp. Catalog United States ⊘ Non-Preferred ▼	50-18-0 CYCLOPHOSPHAMIDE		Grams
☐ 3. AKos Building Blocks Product List Germany Set Preference ▼	50-18-0 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide		Grams
☐ 4. AldrichCPR United States Set Preference ▼	50-18-0 N,N-bis(2-chloroethyl)-1,3,2-oxazaphosphinan-2-amine 2-oxide		Milligrams

往後每次查詢此廠商“不會”
在結果頁面第一個出現

匯出報告商品來源訊息

Export ?

* Required

Export:

☒ All

☐ Selected

☐ Range

Example: 2-20

For:

Offline review

☐ Portable Document Format (*.pdf)

☐ Rich Text Format (*.rtf)

☒ Microsoft Excel Worksheet (*.xls)

☐ Quoted Format (*.txt)

☐ Tagged Format (*.txt)

Details:

File Name: *

Source_07_28_2015_150907

Export **Cancel**

按下 Export 選擇格式為
Excel表格，方便管理。

實際例子

例子 MERS疫苗開發

REFERENCES

Research Topic

Author Name

Company Name

Document Identifier

Journal

Patent

Tags

SUBSTANCES

Chemical Structure

Markush

Molecular Formula

REFERENCES: RESEARCH TOPIC ?

MERS of vaccine

Examples:

The effect of antibiotic residues on dairy products

Photocyanation of aromatic compounds

Search

Advanced Search

MERS 查詢結果

201506查詢結果

1 of 5 Research Topic Candidates Selected

- ☐ 18 references were found containing "**MERS of vaccine**" as entered.
- ☒ 2233 references were found containing the two concepts "**MERS**" and "**vaccine**" closely associated with one another.
- ☐ 5022 references were found where the two concepts "**MERS**" and "**vaccine**" were present anywhere in the reference.
- ☐ 571381 references were found containing the concept "**MERS**".
- ☐ 451421 references were found containing the concept "**vaccine**".

Get References

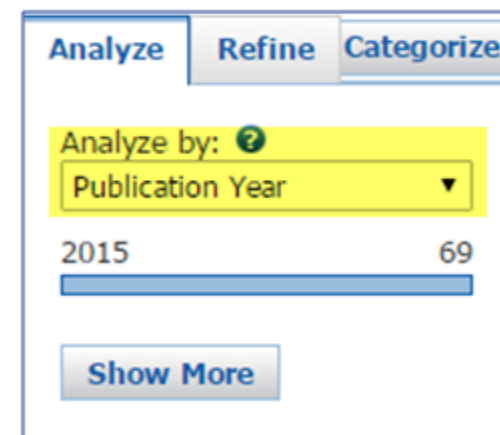
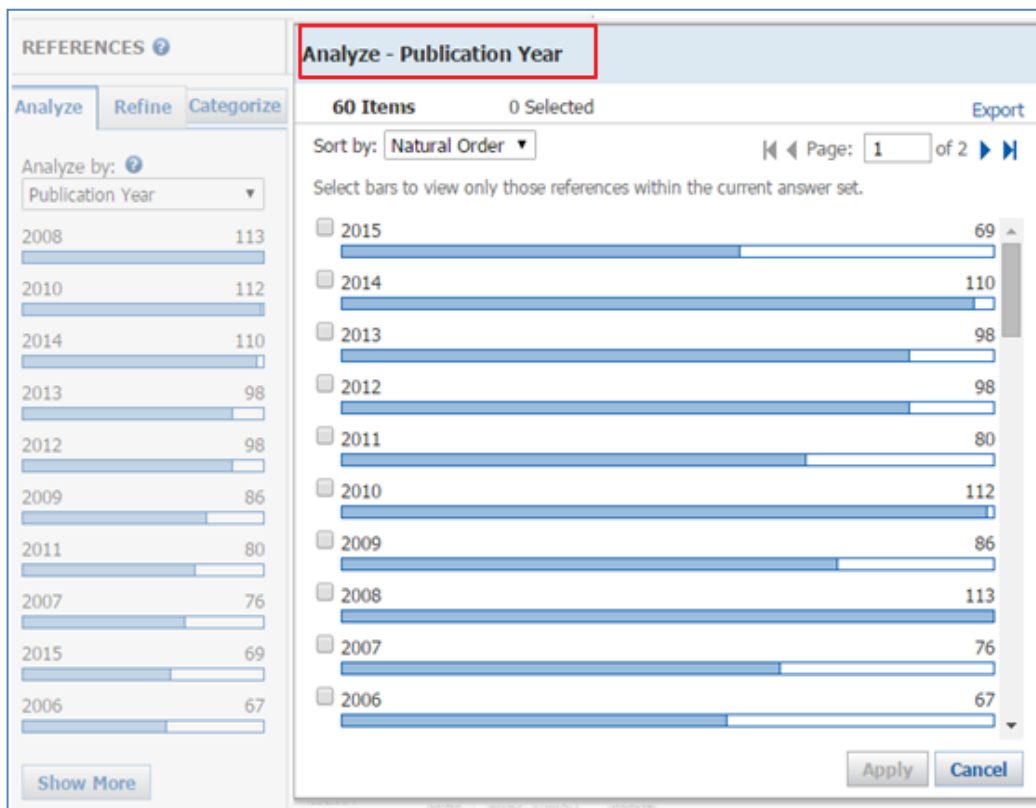
201508查詢結果

1 of 5 Research Topic Candidates Selected

- ☐ 21 references were found containing "**MERS of vaccine**" as entered.
- ☒ 2259 references were found containing the two concepts "**MERS**" and "**vaccine**" closely associated with one another.
- ☐ 5077 references were found where the two concepts "**MERS**" and "**vaccine**" were present anywhere in the reference.
- ☐ 576912 references were found containing the concept "**MERS**".
- ☐ 456655 references were found containing the concept "**vaccine**".

Get References

MERS 疫苗開發查詢過程



利用 **Categorize** 有系統尋找預探討主題，
 此次我們選擇生物技術中的“**疫苗**”、“**抗病
 毒劑**”與“**藥物傳遞系統**”，這三個關鍵字的
 文獻。

Categorize ?

1. Select a heading and category.

Category Heading	Category
All	Substances in medicine (290)
Genetics & protein chemistry	Medicine (47)
Physical chemistry	Agriculture (5)
Biology	Food (1)
Biotechnology	Toxicology & forensics (1)
Analytical chemistry	
General chemistry	
Polymer chemistry	
Synthetic chemistry	
Environmental chemistry	
Technology	

生物技術

2. Select index terms of interest.

Index Terms	Select All	Deselect All
☒ Vaccines	12	
☒ Antiviral agents	6	
☐ Immunization	5	
☐ Vaccines, influenza	3	
☐ Antitumor agents, vaccines	2	
☒ Drug delivery systems	2	
☐ Immune adjuvants	2	
☐ Immunotherapy	2	
☐ Infection Control	2	
☐ Vaccines, synthetic	2	
☐ Vaccines, tumor	2	
☐ Abortion	1	
☐ Adjuvants, Immunologic	1	
☐ Adolescent Health Services	1	

藥物

Selected Terms

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

Biotechnology > Medicine (3 Terms)

疫苗

抗病毒劑

藥物傳遞系統

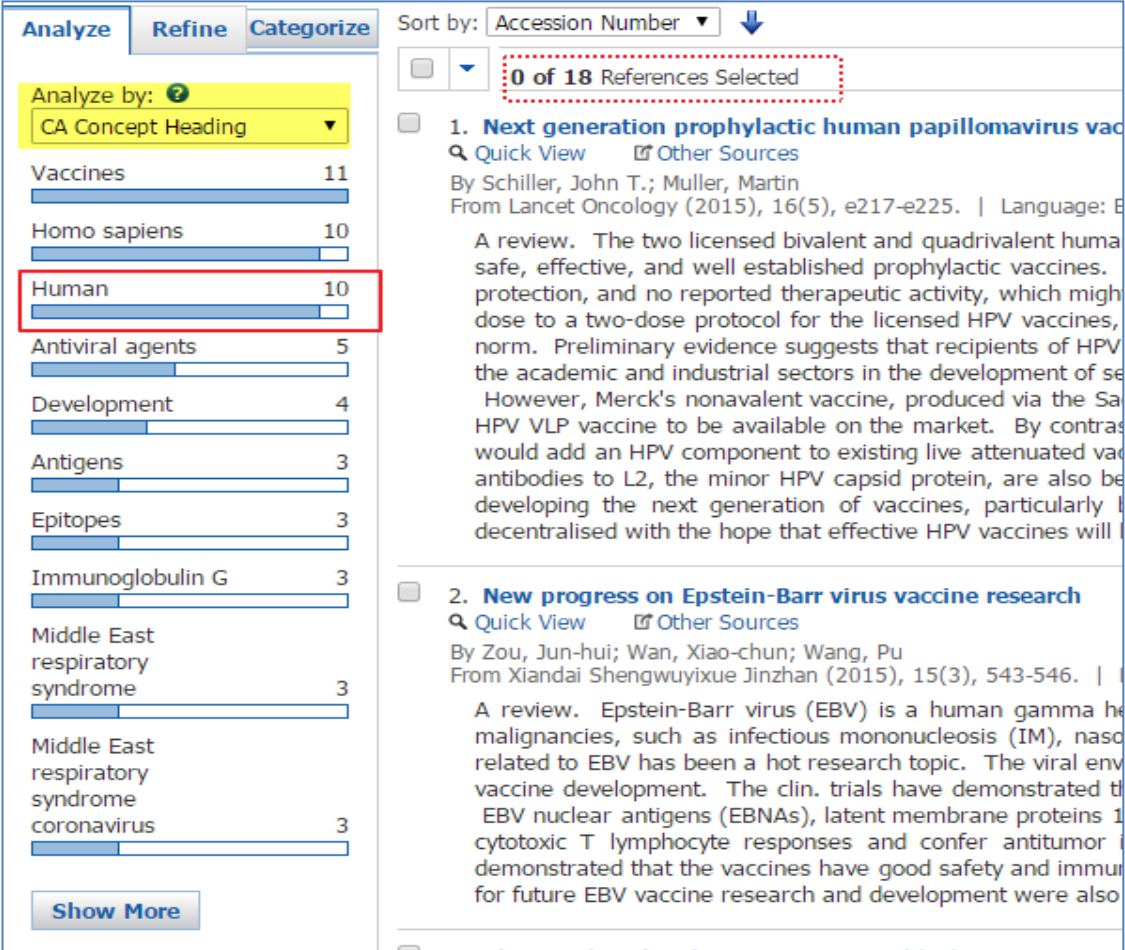
Biotechnology > Medicine > 3 Index Term(s) Selected

OK Cancel

透過Categorize的分類，有效的限縮與關注主題。

篩選出的文獻(18篇)再利用**CA Concept Heading**

選擇領域“Human”，限縮10篇文獻。



Analyze **Refine** **Categorize**

Analyze by:  **CA Concept Heading**

Vaccines	11
Homo sapiens	10
Human	10
Antiviral agents	5
Development	4
Antigens	3
Epitopes	3
Immunoglobulin G	3
Middle East respiratory syndrome	3
Middle East respiratory syndrome coronavirus	3

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☐ **0 of 18 References Selected**

☐ **1. Next generation prophylactic human papillomavirus vaccine**
[Quick View](#) [Other Sources](#)
 By Schiller, John T.; Muller, Martin
 From Lancet Oncology (2015), 16(5), e217-e225. | Language: English

A review. The two licensed bivalent and quadrivalent human papillomavirus (HPV) vaccines are safe, effective, and well established prophylactic vaccines. They provide protection, and no reported therapeutic activity, which might lead to a two-dose protocol for the licensed HPV vaccines, which is a norm. Preliminary evidence suggests that recipients of HPV vaccines in the academic and industrial sectors in the development of safe and effective HPV vaccines. However, Merck's nonavalent vaccine, produced via the Safer HPV VLP vaccine to be available on the market. By contrast, the addition of antibodies to L2, the minor HPV capsid protein, are also being developed. The next generation of vaccines, particularly those that are decentralised with the hope that effective HPV vaccines will be developed.

☐ **2. New progress on Epstein-Barr virus vaccine research**
[Quick View](#) [Other Sources](#)
 By Zou, Jun-hui; Wan, Xiao-chun; Wang, Pu
 From Xiandai Shengwuyixue Jinzhan (2015), 15(3), 543-546. | Language: Chinese

A review. Epstein-Barr virus (EBV) is a human gamma herpesvirus. It is related to malignancies, such as infectious mononucleosis (IM), nasopharyngeal carcinoma, and nasopharyngeal cancer. The viral envelope and nuclear antigens (EBNAs), latent membrane proteins 1 and 2, and cytotoxic T lymphocyte responses and confer antitumor immunity. It has been demonstrated that the vaccines have good safety and immunogenicity for future EBV vaccine research and development were also demonstrated.

MERS 疫苗開發查詢結果

3. Middle East respiratory syndrome coronavirus (MERS-CoV) particulate vaccine

By: Smith, Gale; Liu, Ye; Massare, Michael
Assignee: Novavax, Inc., USA

中東呼吸道症候群 (MERS-Cov) 微粒疫苗

The authors disclose virus-like particles for eliciting protection against Middle East respiratory syndrome coronavirus (MERS-CoV). The virus-like particles (VLP) comprises nanoparticles of the MERS-CoV spike glycoprotein. In the examples, administration of VLP to mice or transgenic cattle was shown to induce a strain cross-reactive neutralizing antibody response.

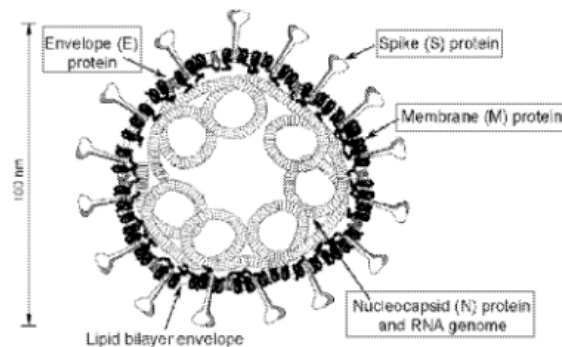
作者透露VLPs(virus-like particles)能夠誘發體內抵禦MERS-CoV。

VLPs由MERS-CoV 中spike glycoprotein的奈米顆粒所組成。

在實際的案例中，VLPs使用在小鼠和基轉牛隻上，已經證實可以誘發交叉中和性抗體反應。

Figure 1

Coronavirus Structure



Masters, Adv Virus Res 2006

- Single strand RNA virus
- 30 kb genome with 14 ORFs
- Four structural proteins:
 - Spike (S)
 - Membrane (M)
 - Envelope (E)
 - Nucleocapsid (N)

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0 of 1 Substance Selected

1. **1676114-43-4** 🔍

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Substance
Image
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1676114-43-4

Viral spike glycoprotein (Middle East respiratory syndrome coron

Protein Sequence

Sequence Length: 1353

CAS Registry Number 1676114-43-4

~1

Viral spike glycoprotein (Middle East respiratory syndrome coronavirus strain Al-Hasa gene S)

Other Names

1: PN: WO2015042373 SEQID: 2 claimed protein

Protein Sequence

Sequence Length: 1353

蛋白質序列

Substance
Image
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1676114-43-4

Expand All | Collapse All

SEQUENCE DETAILS

Sequence:

序列

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1  MIHSVFLMF LLTPTESYVD VGPDSVKAC IEVDIQQTF DKTWPRIDV
51  SKADGIIVPQ GRITYSNITIT YQGLFPYQGD HGDHYVYSAG HATGTPQKL
101 FVANYSQDVQ QFANGFVRI GAAANSTGTV IISPTSATI RKIYPAPMLG
151 SSVGNFSDGK MGRFFNHTLV LLPDGCGLTLL RAFYCILEPR SGNHCPAGNS
201 YTSFATYHTP ATDCSDGNYN RNASLNSFKE YFNLRNCTFM YTYNITEDEI
251 LENFGITQTA QGVHLFSSRY VDLVGGNMFO FATLPVYDTI KYYSIIPHSI
301 RSIQSDRAKAW AAFVYVKLQP LTFLLDFSVD GYIRRAIDCG FNDLSQLHCS
351 YESFDVESGV YSVSSFEAKP SGSVVEQAEF VECDFSPLLS GTPPQVYNFK
401 RLVFTNCNIN LTKLLSLFSV NDTCSQISF AAIASNCYSS LILDYFSYPL
451 SMKSDLSVSS AGPISQFNKY QSFNPTCLI LATVPHNLT ITKPLKYSYI
501 NKCSRLLSDD RTEVPQLVNA NQYSPCVSIV PSTVWEDGDY YRQLSPLEG
551 GGHVLASGST VAHTEQLQMG FGITVQYGTD TNSVCPKLEF ANDTKIASQL
601 GNCVEYSLYG VSGRGVFQNC TAVGVRQORF VYDAYQNLVG YYSDGNNYYC
  
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Patent Annotations

Source	Feature	Location	Description	Reference
Not Given				WO2015042373, SEQID 2; claimed

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Patent No.	Kind	Language
WO 201005930	A2	English
JP 2011527521	T	Japanese
JP 5427888	B2	Japanese
CN 104320899	A	Chinese

The detailed patent document on the right is titled "(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)" and includes information about the World Intellectual Property Organization (WIPO) and the International Publication Number WO 2010/005930 A2.

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REFERENCE DETAIL

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1. Internal electrode structure inside inductor element and its fabrication method

By: Lee, Hwan Su; Cha, Hye Yeon; Choi, Yeong Sik; Wi, Seong Gwon
Assignee: Samsung Electro-Mechanics Co., Ltd., S. Korea

The invention relates to an inductor element contg. an internal electrode inside and its fabrication method. The inductor element contains a 1st electroplating layer set on a support member, an insulating layer covering the 1st electroplating layer and contg. an opening part exposing the upper face of the 1st electroplating layer, and a 2nd electroplating layer filled in the opening part. The internal electrode with high aspect ratio is set in the inductor element. The internal electrode is composed of the coil-shaped 1st and 2nd electroplating layers.

Patent Information

Patent No.	Kind	Language	Date	Application No.	Date
KR 1483876	B1		Jan 16, 2015	KR 2013-96645	Aug 14, 2013
JP 2015037179	A	Japanese	Feb 23, 2015	JP 2013-262915	Dec 19, 2013
US 20150048920	A1	English	Feb 19, 2015	US 2014-14459963	Aug 14, 2014

Priority Application

KR 2013-96645	A	Aug 14, 2013
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日本專利PDF

美國專利PDF

韓國專利PDF

JP 2015-37179 A 2015. 2. 23

(1) 日本特許庁 (P) (2) 公開特許公報 (A) (3) 特許公報公開番号
特開2015-37179
(P2015-37179A)
(4) 公開日 平成27年2月23日 (2015.2.23)

国	種別	公開日	特許番号
JP	H01F 17/00 H01F 41/04	2015.02.23	特開2015-37179
US	H01F 17/00 H01F 41/04	2015.02.23	US 2015/0048920

発明の要旨 (要約) (5) 図1 (6) 図2 (7) 図3 (8) 図4 (9) 図5 (10) 図6 (11) 図7 (12) 図8 (13) 図9 (14) 図10 (15) 図11 (16) 図12 (17) 図13 (18) 図14 (19) 図15 (20) 図16 (21) 図17 (22) 図18 (23) 図19 (24) 図20 (25) 図21 (26) 図22 (27) 図23 (28) 図24 (29) 図25 (30) 図26 (31) 図27 (32) 図28 (33) 図29 (34) 図30 (35) 図31 (36) 図32 (37) 図33 (38) 図34 (39) 図35 (40) 図36 (41) 図37 (42) 図38 (43) 図39 (44) 図40 (45) 図41 (46) 図42 (47) 図43 (48) 図44 (49) 図45 (50) 図46 (51) 図47 (52) 図48 (53) 図49 (54) 図50 (55) 図51 (56) 図52 (57) 図53 (58) 図54 (59) 図55 (60) 図56 (61) 図57 (62) 図58 (63) 図59 (64) 図60 (65) 図61 (66) 図62 (67) 図63 (68) 図64 (69) 図65 (70) 図66 (71) 図67 (72) 図68 (73) 図69 (74) 図70 (75) 図71 (76) 図72 (77) 図73 (78) 図74 (79) 図75 (80) 図76 (81) 図77 (82) 図78 (83) 図79 (84) 図80 (85) 図81 (86) 図82 (87) 図83 (88) 図84 (89) 図85 (90) 図86 (91) 図87 (92) 図88 (93) 図89 (94) 図90 (95) 図91 (96) 図92 (97) 図93 (98) 図94 (99) 図95 (100) 図96 (101) 図97 (102) 図98 (103) 図99 (104) 図100 (105) 図101 (106) 図102 (107) 図103 (108) 図104 (109) 図105 (110) 図106 (111) 図107 (112) 図108 (113) 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The screenshot displays the SciFinder Patent Viewer interface. On the left, a list of patent entries is shown, with one entry highlighted in red. A blue arrow points from this entry to the detailed view of the patent on the right. The detailed view shows the patent title, abstract, and chemical structures.

Patent List (Left):

- 1636182-64-3P Page 127 in PatentPak[™]
- prepn. of triazinane trione derivs. and compns. thereof useful for treatment of diseases
- Biological use, unclassified; Cosmetic use; Food or feed use; Other use, unclassified; Pharmacokinetics; Synthetic preparation; Therapeutic use; Biological study; Preparation; Uses
- 1626333-91-2P Page 127 in PatentPak[™]**
- 1636182-62-1P Page 127 in PatentPak[™]**
- 1636182-63-2P Page 127 in PatentPak[™]
- 1636182-65-4P Page 127 in PatentPak[™]
- 1636182-66-5P Page 128 in PatentPak[™]
- 1636182-67-6P Page 128 in PatentPak[™]
- 1636182-68-7P Page 128 in PatentPak[™]
- 1636182-69-8P Page 128 in PatentPak[™]
- prepn. of triazinane trione derivs. and compns. thereof useful for treatment of diseases
- Biological use, unclassified; Cosmetic use; Food or feed use; Other use, unclassified; Synthetic preparation; Therapeutic use; Biological study; Preparation; Uses

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Key Substances in Patent

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CAS RN 1636182-63-4

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Analyst Markup Location

page 127

CAS RN 2451-62-9

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Analyst Markup Location

page 127

WO 2014/179562 **PCT/US2014/036355**

Scheme 1. Exemplary synthesis of certain compounds of Formula (I), wherein R^A and R^B are as described herein.

[00269] In one set of experiments, a mixture of compounds 1 and 4 in EtOH was irradiated in the microwave oven at 150 °C for 5 h. The reaction mixture was purified by flash column chromatography to yield a compound of Formula (I). Compound

[00270] **Compound 1-1:** ¹H NMR (500 MHz, CDCl₃) δ 4.08–4.13 (m, 3H), 3.99–4.01 (m, 3H), 3.84–3.88 (m, 3H), 2.30–2.48 (m, 12H), 2.24 (s, 9H), 1.27–1.44 (m, 24H), 0.88 (t, J = 7.0 Hz, 9H). HRMS (ESI) calcd for C₂₇H₃₅N₃O₆ [M+H]⁺ 643.5122, found 643.5203.

[00271] **Compound 1-2:** ¹H NMR (500 MHz, CDCl₃) δ 4.08–4.13 (m, 3H), 3.98–4.00 (m, 3H), 3.83–3.86 (m, 3H), 2.33–2.47 (m, 12H), 2.24 (s, 9H), 1.26–1.46 (m, 36H), 0.88 (t, J = 7.0 Hz, 9H). HRMS (ESI) calcd for C₂₈H₃₅N₃O₆ [M+H]⁺ 727.6056, found 727.6116.

[00272] **Compound 1-3:** ¹H NMR (500 MHz, CDCl₃) δ 4.08–4.13 (m, 3H), 3.99–4.00 (m, 3H), 3.84–3.87 (m, 3H), 2.30–2.47 (m, 12H), 2.24 (s, 9H), 1.26–1.44 (m, 60H), 0.88 (t, J = 7.0 Hz, 9H). HRMS (ESI) calcd for C₂₈H₃₅N₃O₆ [M+H]⁺ 895.7934, found 895.7937.

[00273] **Compound 1-4:** ¹H NMR (500 MHz, CDCl₃) δ 4.08–4.11 (m, 3H), 3.98–3.99 (m, 3H), 3.84–3.87 (m, 3H), 2.33–2.45 (m, 12H), 2.24 (s, 9H), 1.25–1.44 (m, 96H), 0.88 (t, J = 7.0 Hz, 9H). HRMS (ESI) calcd for C₂₈H₃₅N₃O₆ [M+H]⁺ 1148.0751, found 1148.0615.

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Key Substances in Patent

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CAS RN 1626333-91-2

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CAS RN 1636182-65-4

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Analyst Markup Location
page 127

CAS RN 2451-62-9

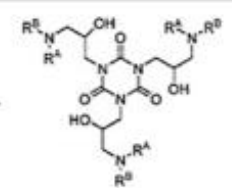
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專利全文

Scheme 1. Exemplary synthesis of certain compounds of Formula (I), wherein R^A and R^B are as described herein.

[00269] In one set of experiments, a mixture of compounds 1 and 4 in EtOH was irradiated in the microwave oven at 150 °C for 5 h. The reaction mixture was purified by flash column chromatography to yield a compound of Formula (I). Compound

[00270] Compound 1-1: ¹H NMR (500 MHz, CDCl₃) δ 4.08–4.13 (m, 3H), 3.99–4.01 (m, 3H), 3.84–3.88 (m, 3H), 2.30–2.48 (m, 12H), 2.24 (s, 9H), 1.27–1.44 (m, 24H), 0.88 (t, J = 7.0 Hz, 9H). HRMS (ESI) calcd for C₁₃H₂₀N₂O₆ [M+H]⁺ 643.5122, found 643.5203.

[00271] Compound 1-2: ¹H NMR (500 MHz, CDCl₃) δ 4.08–4.13 (m, 3H), 3.98–4.00 (m, 3H), 3.83–3.86 (m, 3H), 2.33–2.47 (m, 12H), 2.24 (s, 9H), 1.26–1.46 (m, 36H), 0.88 (t, J = 7.0 Hz, 9H). HRMS (ESI) calcd for C₁₉H₃₀N₂O₆ [M+H]⁺ 727.6056, found 727.6116.

[00272] Compound 1-3: ¹H NMR (500 MHz, CDCl₃) δ 4.08–4.13 (m, 3H), 3.99–4.00 (m, 3H), 3.84–3.87 (m, 3H), 2.30–2.47 (m, 12H), 2.24 (s, 9H), 1.26–1.44 (m, 60H), 0.88 (t, J = 7.0 Hz, 9H). HRMS (ESI) calcd for C₂₇H₄₀N₂O₆ [M+H]⁺ 895.7934, found 895.7937.

[00273] Compound 1-4: ¹H NMR (500 MHz, CDCl₃) δ 4.08–4.11 (m, 3H), 3.98–3.99 (m, 3H), 3.84–3.87 (m, 3H), 2.33–2.45 (m, 12H), 2.24 (s, 9H), 1.25–1.44 (m, 96H), 0.88 (t, J = 7.0 Hz, 9H). HRMS (ESI) calcd for C₄₀H₅₈N₂O₆ [M+H]⁺ 1148.0751, found 1148.0615.

Compound 1-5: ¹H NMR (500 MHz, CDCl₃) δ 4.08–4.13 (m, 3H), 3.93–3.95 (m, 3H), 1.34–1.42 (m, 12H), 1.26–1.33 (m, 12H), 1.39–1.41 (m, 12H), 0.89 (t, J = 7.0 Hz, 18H). HRMS (ESI) calcd for C₂₆H₃₈N₂O₆ [M+H]⁺ 597.

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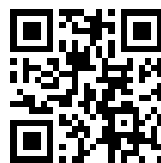
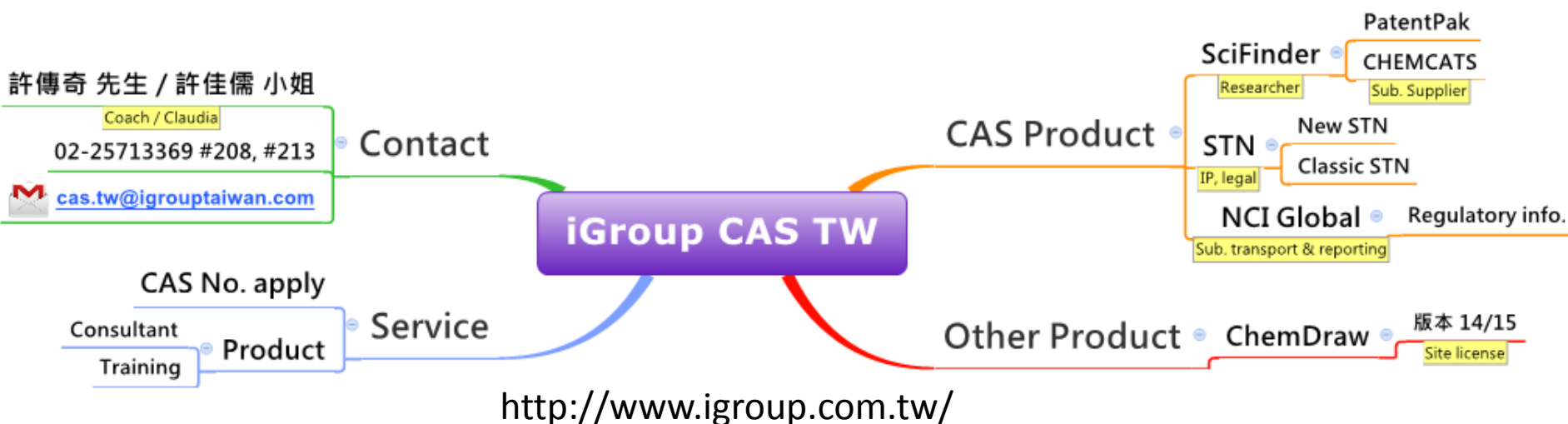


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The image shows the ChemBioDraw Ultra 14 interface. A chemical reaction is displayed, with a red arrow pointing to the reactant structure, labeled '1 選定結構' (Select structure). A second red arrow points to the SciFinder search dialog box, labeled '2'. The dialog box has a 'Search SciFinder' title bar and contains two search options: 'Substance Search' and 'Reaction Search (Substructure)'. Under 'Reaction Search (Substructure)', the option 'Selected Structure(s) are Reactants' is selected and circled in red, labeled '3'. The dialog box also includes a 'Proxy Settings...' button and 'OK' and 'Cancel' buttons.

The image shows the SciFinder REACTIONS search results page. The 'Analyze' tab is selected, showing a list of reagents and their associated counts. The 'Refine' tab is also visible. The 'Overview' section shows the reaction details, including the reactant structure, the product structure, and the reaction conditions. The 'Notes' section provides additional information about the reaction, including the reagents, steps, and stages. The 'References' section lists the sources of the reaction information.

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