

CAS SCIFINDER DISCOVERY PLATFORM™

助攻论文写作



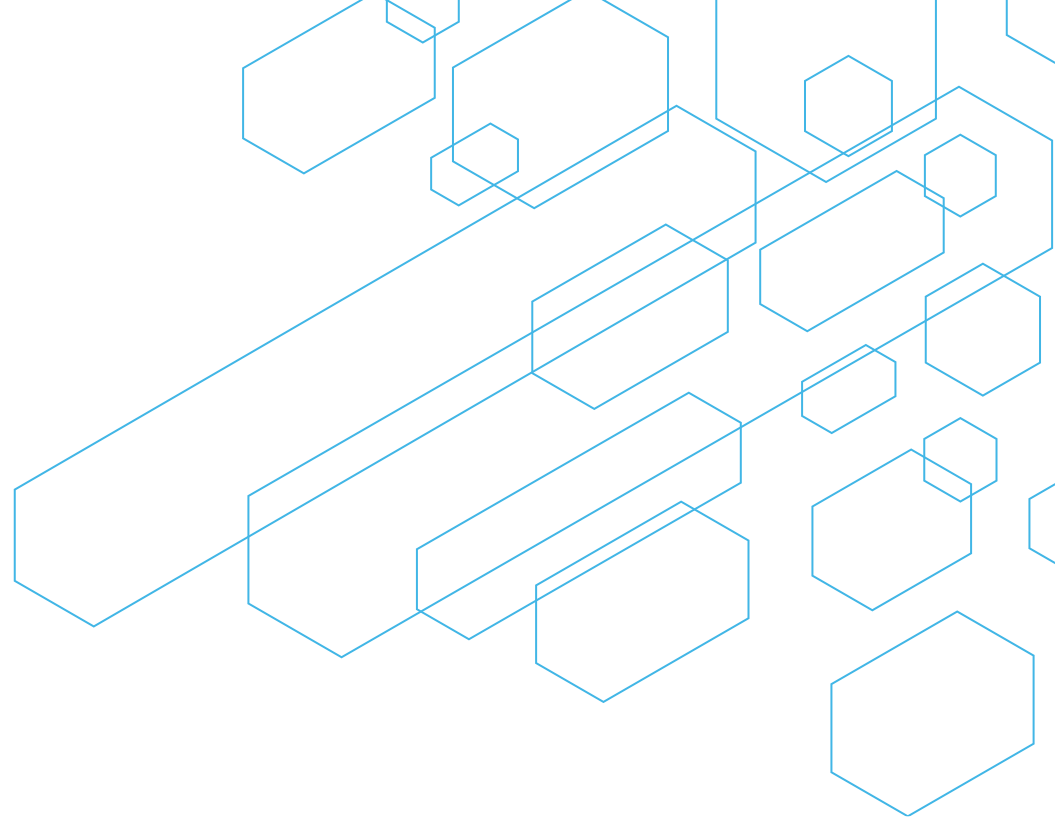
China@acs-i.org

美国化学文摘社中国代表处

4/18/2025

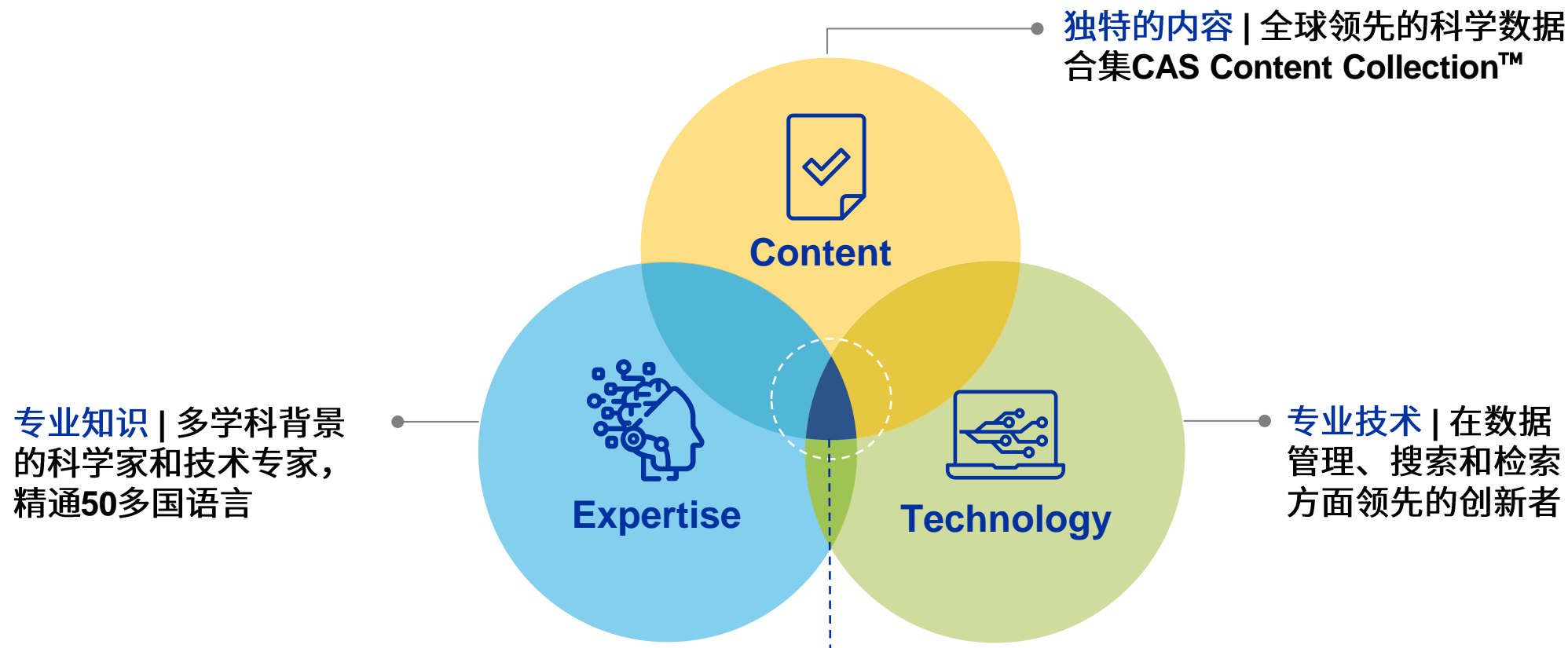
提纲

- CAS 简介
- CAS SciFinder Discovery Platform 助攻论文写作
 - 研究背景：研究现状和发展趋势的全面调研
 - 实验设计：课题的创新性及已有相关实验报道
 - 结果分析：数据的比对及关联研究检索拓展
- Q&A



关于 CAS

CAS 从专业知识、内容和技术三方面为全球创新保驾护航



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超过5万种科技期刊

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50多种语言

290+

超过2.9亿种物质

109

109家
专利授权机构

CAS 对文献的独特解读

以专利WO2018152134为例

改写的标准和摘要，尽可能揭示专利核心价值

丰富的增值标引信息：

19 Concepts

163 Substances

625 Reactions

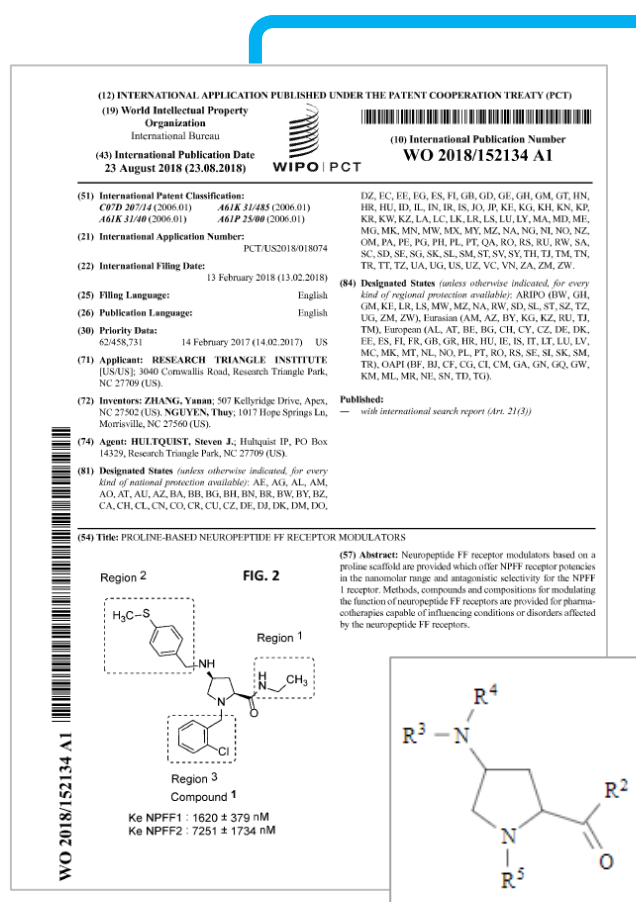
15 Patent Family Members

3 Formulations

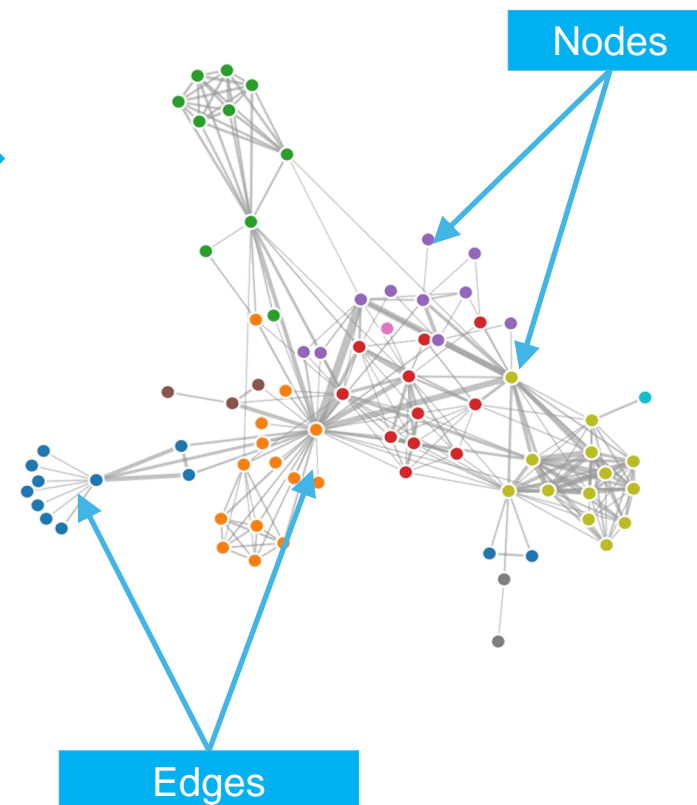
1 Markush structure

18 SAR data points

141 ADME data points



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Discovery

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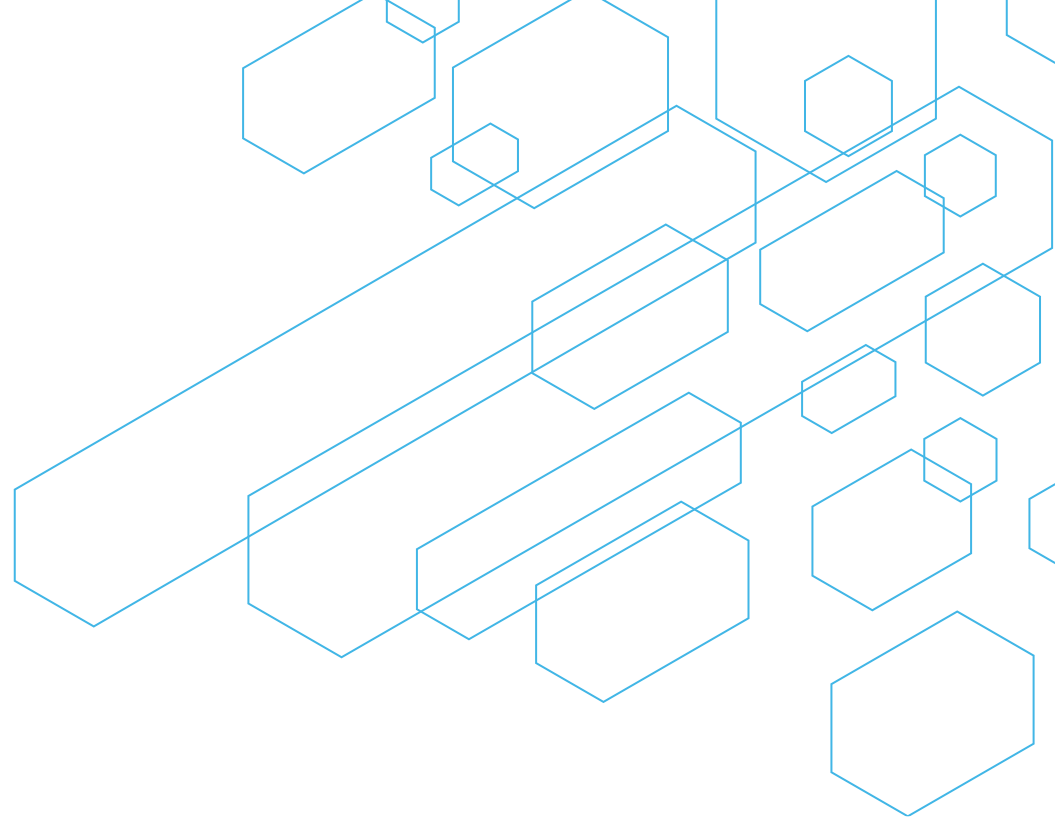
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提纲

- CAS 简介
- CAS SciFinder Discovery Platform 助攻论文写作
 - 研究背景：研究现状和发展趋势的全面调研
 - 实验方法：课题的创新性及已有相关实验报道
 - 结果分析：数据的比对及关联研究检索拓展
- Q&A



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Search CAS Lexicon

Learn more about CAS Lexicon searching.

Search a concept to start (ex. Biomass)...

Search Concept

示例：Fuel cells (燃料电池)

Preferred Concept

☐ Fuel cells

This will search synonyms: **Fuel cell**; **Fuel-cell** battery

Broader Concepts (3)

Select All

☐ Electrochemical cells

☐ Energy converters

☐ Power supplies

Narrower Concepts (19)

Select All

☐ Alkaline fuel cells

☐ Biochemical fuel cells

☐ Direct alcohol fuel cells

☐ Direct ethanol fuel cells

☐ Direct formic acid fuel cells

View All

Related Concepts (7)

Select All

☐ Cogeneration ⓘ

Fuel cells - Preferred Concept

×

OR

Remove All

Fuel cells - Narrower Concept (1)

Direct alcohol fuel cells

×

Fuel cells - Related Concept (1)

Fuel cell electrolytes

×

检索并浏览层级词库：同义词、上位词、下位词、相关词

自主勾选感兴趣的内容，一键开启检索

AND

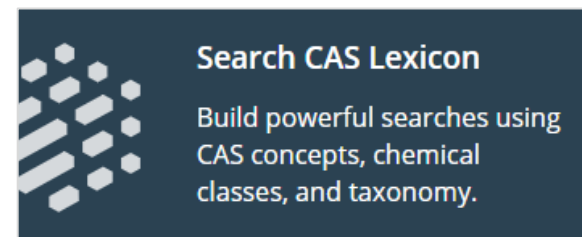
OR

NOT

Add to Query

Clear Query

Search



- 提供标准技术词
- 启发获取信息的新思路

优化主题词可细化文献检索结果，更加精准定位文献

"fuel cell" and electrolyte and poly*

References search for "fuel cell" and electrolyte and poly*

Substances Reactions Citing Knowledge Graph

We are displaying the most relevant results.
Learn about result relevance.
Load All Results

Filter Behavior
Filter by Exclude

- Search Within Results
- Document Type
- Substance Role
- Language
- Publication Year
- Author
- Organization
- Publication Name

50,027 Results
Sort: Relevance View: Partial Abstract

1

Polymer electrolyte fuel cells
By: Gottesfeld, Shimshon; Zawodzinski, Tom A.
Advances in Electrochemical Science and Engineering (1997), 5, 195-301 | Language: English, Database: CAPus

A review with 120 references on single polymer electrolyte fuel cells, fuel cell stacks, and complete power systems. Research and development efforts are described at the fuel cell level that enhanced the understanding of PEFC performance, cost and reliability. Topics include a general description of the polymer electrolyte fuel cell, electrocatalysis in the PEFC, the membrane/electrode assembly for electrocatalysis, the ionomeric membrane, modeling and diagnostics of the PEFC, PEFC stack and complete power systems, and the polymer electrolyte direct methanol fuel cell (DMFC).

Full Text Substances (6) Reactions (0) Citing (539) Citation Map

2

Water transport in polymer electrolyte membrane fuel cells
By: Jiao, Kui; Li, Xianguo
Progress in Energy and Combustion Science (2011), 37(3), 221-291 | Language: English, Database: CAPus

A review. Polymer electrolyte membrane fuel cell (PEMFC) has been recognized as a promising zero-emission power source for portable, mobile and stationary applications. To simultaneously ensure high membrane proton conductivity and sufficient reactant delivery to reaction sites, water management has become one of the most important issues for PEMFC commercialization, and proper water management requires good understanding of water transport in different components of PEMFC. In this paper, previous researches related to water transport in PEMFC are comprehensively reviewed. The state and transport...

31 Citation Map

- 支持布尔逻辑运算符(and, or, not)
- () 优先运算
- “ ”不允许词形变化，但可出现单数或复数
- 支持通配符*或? (*代表0或多个字符；? 代表0或1个字符)

快速概览关注的研究方向

多维度的筛选、排序方式

浏览综述文献
迅速把握大方向

Filter Behavior

Filter by Exclude

Search Within Results

Document Type

- Journal (25K)
- Patent (24K)
- ☒ Review (2,515)
- Book (12)
- Commentary (4)

[View All](#)

Substance Role

Language

Publication Year

Author

Organization

Publication Name

Concept

CA Section

Database

Filtering: Document Type: Review X

2,515 Results

Sort: Relevance View: Partial Abstract

1

Polymer electrolyte fuel cells

By: Gottesfeld, Shimshon; Zawodzinski, Tom A.
Advances in Electrochemical Science and Engineering (1997), 5, 195-301 | Language: English, Database: CAplus

A review with 120 references on single polymer electrolyte fuel cells, fuel cell stacks, and complete power systems. Research and development efforts are described at the fuel cell level that enhanced the understanding of PEFC performance, cost and reliability. Topics include a general description of the polymer electrolyte fuel cell, electrocatalysis in the PEFC, the membrane/electrode assembly for electrocatalysis, the ionomeric membrane, modeling and diagnostics of the PEFC, PEFC stack and complete power systems, and the polymer electrolyte direct methanol fuel cell (DMFC).

Full Text Substances (6) Reactions (0) Citing (539) Citation Map

2

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By: Jiao, Kui; Li, Xianguo
Progress in Energy and Combustion Science (2011), 37(3), 221-291 | Language: English, Database: CAplus

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Full Text Substances (0) Reactions (0) Citing (651) Citation Map

自主选择排序方式

Relevance
Times Cited 引用次数
Accession Number: Ascending
Accession Number: Descending
Publication Date: Newest
Publication Date: Oldest
发表时间

参考相关文献中的用词

文献的标题、摘要、Keywords、核心研究点、物质及研究角色等

5000Citation Map

In this Reference

- CAS Concepts
- Substances
- Cited Documents

内容导航速览

Transition metal nitrides: Essential and potential use in low-temperature fuel cells

By: Antolini, Ermete

DOI: 10.1016/j.jelechem.2024.118926

A review. Transition metal nitrides (TMNs) and TMN-containing compounds can play different roles in low-temperature fuel cells. They can be used as bipolar plate coatings, catalyst support and catalysts. Titanium nitride (TiN) is the most used TMN as bipolar plate coating and catalyst support, while molybdenum nitrides (MoN and Mo₂N) and cobalt nitrides (Co_xN) are the most used TMN as catalyst for oxygen reduction, and nickel nitride (Ni₃N) as catalyst for hydrogen oxidation. In this work the essential and potential use of TMNs and TMN-containing materials in polymer electrolyte membrane fuel cells is overviewed and discussed.

Keywords: review transition metal nitride polymer electrolyte membrane fuel cell

[View Source](#) [Full Text](#)

Publication Information • Journal

Source

Journal of Electroanalytical Chemistry

Volume: 979

Pages: 118926

Journal: General Review

2025

DOI:

[10.1016/j.jelechem.2024.118926](#)

CODEN: JECHES

ISSN: 1873-2569

Database Information

AN: 2025:46673

CAPLUS

Company/Organization

Scuola di Scienza dei Materiali,

Via 25 aprile 22

Cogoleto Genova 16016

Italy

Publisher

Language

View Less

CAS Concepts

Catalyst supports

Coating materials

Electrochemical reduction catalysts

Low temperature

Polymer electrolyte fuel cells

Transition metal nitrides

Role: Catalyst Use; Properties; Technical or Engineered Material Use

Substances

25583-20-4

N#N[Ti]

NTi

Titanium mononitride

Role: Catalyst Use, Properties, Technical or Engineered Material Use, Uses

12033-45-3

Component	Ratio
Ni	3
N	1

N.Ni

Nickel nitride (Ni₃N)

Role: Catalyst Use, Properties, Technical or Engineered Material Use, Uses

物质研究角色

获取与特定结构相关的研究

关键词+结构绘制联合检索

CAS SciFinder

References ("Sodium glucose cotransporter-2" or "SGLT-2") and inhibitor

Substances Reactions Citing Knowledge Graph

Structure Match

As Drawn (3)

Substructure (2,269)

Filter Behavior

Filter by Exclude

Search Within Results

Document Type

Substance Role

- ☐ Biological Study (1,728)
- ☐ Uses (1,646)
- ☒ Therapeutic Use (1,629)
- ☐ Preparation (71)
- ☐ Reactant or Reagent (62)

View All

Language

Publication Year

Author

Organization

Publication Name

Concept

Filtering: Substance Role: Therapeutic Use

1,629 Results

1

Empagliflozin, a novel selective sodium glucose cotransporter-2 (SGLT-2) inhibitor characterisation and comparison with other SGLT-2 inhibitors

By: Grempler, R.; Thomas, L.; Eckhardt, M.; Himmelsbach, F.; Sauer, A.; Sharp, D. E.; Bakker, R. A.; Mark, M. Diabetes, Obesity and Metabolism (2012), 14(1), 83-90 | Language: English, Database: CAlus and MEDLINE

Aims: Empagliflozin is a selective sodium glucose cotransporter-2 (SGLT-2) inhibitor in clin. development type 2 diabetes mellitus. This study assessed pharmacol. properties of empagliflozin in vitro and pharmacol. and compared its potency and selectivity with other SGLT-2 inhibitors. Methods: [¹⁴C]-alpha-Me glucose experiments were performed with stable cell lines over-expressing human (h) SGLT-1, 2 and 4. Two n hSGLT-5 and hSGLT-6 were established and [¹⁴C]-mannose and [¹⁴C]-myo-inositol uptake ass...

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Full Text

Substances (8) Reactions (0) Citing

2

Pharmacokinetics of Empagliflozin, a Sodium Glucose Cotransporter-2 (SGLT-2) Coadministered with Sitagliptin in Healthy Volunteers

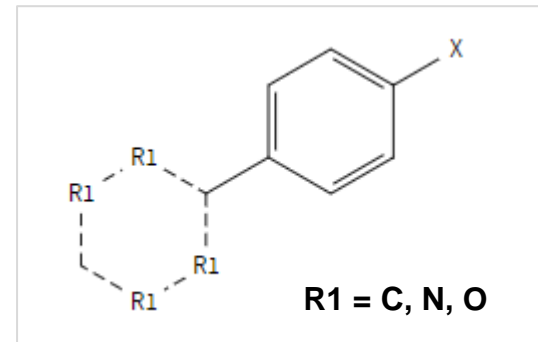
By: Brand, Tobias; Macha, Sreeraj; Mattheus, Michaela; Pinnetti, Sabine; Woerle, Hans J. Advances in Therapy (2012), 29(10), 889-899 | Language: English, Database: CAlus and MEDLINE

Introduction: This randomized, open-label, crossover study investigated potential drug-drug interaction: glucose cotransporter-2 (SGLT-2) inhibitor empagliflozin and the dipeptidyl peptidase-4 (DPP-4) inhibitor. Empagliflozin is a potent and selective SGLT-2 inhibitor that lowers blood glucose levels by inhibiting leading to an increase in urinary glucose excretion. Sitagliptin lowers blood glucose through an insulin action. Methods: Sixteen healthy male volunteers received three treatments (A, B, C) in one of two...

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Full Text

Substances (4) Reactions (0) Citing (49) Citation Map



("Sodium glucose cotransporter-2" or "SGLT-2") and inhibitor

Substance Role

By Count Alphanumeric

物质研究角色

1 Selected

生物活性研究

- ☐ Biological Study (1,728)
- ☐ Uses (1,646)
- ☒ Therapeutic Use (1,629)
- ☐ Pharmacological Activity (1,196)
- ☐ Adverse Effect (124)
- ☐ Pharmacokinetics (95)
- ☐ Biological Study, Unclassified (83)
- ☐ Preparation (71)
- ☐ Synthetic Preparation (71)

治疗应用

- ☐ Reactant or Reagent (62)
- ☐ Reactant (61)
- ☐ Properties (24)
- ☐ Analytical Study (21)
- ☐ Biological Use, Unclassified (19)
- ☐ Analyte (18)
- ☐ Process (6)
- ☐ Prophetic Synthesis or Use (6)
- ☐ Industrial Manufacture (5)

药理学研究

- ☐ Physical, Engineering, or Chemical Process (4)
- ☐ Purification or Recovery (4)
- ☐ Analytical Matrix (3)
- ☐ Byproduct (2)
- ☐ Food or Feed Use (2)
- ☐ Removal or Disposal (2)
- ☐ Analytical Role, Unclassified (1)
- ☐ Nanoscale (1)
- ☐ Reagent (1)

纯化与回收

分析物

合成制备

工业生产

OK Cancel

关注文献的核心研究点，了解当前研究热点

AS Drawn (3)

Substructure (2,269)

Filter Behavior

Filter by Exclude

Search Within Results

Document Type

Substance Role

Language

Publication Year

2008 to 2024

Reset

Author

Organization

Publication Name

Concept

Humans (960)

Homo sapiens (834)

Human (834)

☒ Sodium-Glucose Transporter 2 Inhibitors (790)

Diabetes Mellitus, Type 2 (705)

☒ Benzhydryl compounds (575)

☒ Heart failure (441)

View All

1,076 Results

Sort: Relevance View: Partial Abstract

1

Effects of sodium-glucose cotransporter-2 inhibitors on the cardiovascular and renal complications of type 2 diabetes

By: Chilton, Robert J. | Diabetes, Obesity and Metabolism (2020), 22(1), 16-29 | Language: English, Database: CAPLUS and MEDLINE

A review. Sodium-glucose cotransporter-2 inhibitors (SGLT-2is) have been shown to mitigate the risks of cardiovascular renal complications in patients with type 2 diabetes (T2D) and CV risk factors or CV disease (CVD). In CV outcomes trials (C patients with T2D and established CVD or multiple CV risk factors, empagliflozin and canagliflozin were associated with significant reductions in the risks of major adverse CV events (MACE), hospitalization for heart failure (HF) and kidney disease progression the DECLARE-TIMI 58 study, in which the majority of patients did not have ...

View More

Full Text

Substances (4) Reactions (0) Citing (24)

2

Anti-inflammatory effect of SGLT-2 inhibitors via uric acid and insulin

By: La Grotta, Rosalba; de Candia, Paola; Olivieri, Fabiola; Maccacchione, Giulia; Giuliani, Angelica; Rippo, Maria Rita; Tagliabene, Monica; Mancino, Monica; Rispoli, Francesca; Ferroni, Sabina; et al | Cellular and Molecular Life Sciences (2022), 79(5), 273 | Language: English, Database: CAPLUS and MEDLINE

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Full Text

Substances (10) Reactions (0) Citing (49)

3

Empagliflozin, a sodium glucose cotransporter-2 inhibitor, ameliorates peritoneal fibrosis via suppressing TGF-β/Smad signaling

By: Shentu, Yangping; Li, Yuyang; Xie, Shicheng; Jiang, Huanchang; Sun, Shicheng; Lin, Rixu; Chen, Chaosheng; Bai, Yonghe; Yu, Zheng; Chenfei; et al | International Immunopharmacology (2021), 93, 107374 | Language: English, Database: CAPLUS and MEDLINE

Sodium glucose cotransporter-2 (SGLT-2) inhibitor has been reported to exert a glucose-lowering effect in the peritoneum exposed to peritoneal dialysis solution. However, whether SGLT-2 inhibitors can regulate peritoneal fibrosis by suppressing TGF-β/Smad signaling is unclear. We aimed to (i) examine the effect of the SGLT-2 inhibitor empagliflozin in reducing inflammatory

Concept

Top Count Alphanumeric Search

核心研究点

3 Selected

☐ Humans (960)

☐ Homo sapiens (834)

☐ Human (834)

☒ Sodium-Glucose Transporter 2 Inhibitors (790)

☐ Diabetes Mellitus, Type 2 (705)

☐ Sodium-dependent glucose transporter SGLT2 inhibitors (703)

☒ Benzhydryl compounds (575)

☐ Glucosides (563)

☐ Type 2 diabetes (517)

☐ Male (400)

☐ Hypoglycemic Agents (328)

☐ Female (288)

☐ Animals (281)

☐ Sodium-dependent glucose transporter SGLT2 (273)

☐ Sodium-Glucose Transporter 2 (122)

☐ Blood pressure (117)

☐ Diastolic blood pressure (117)

☐ Myocardial infarction (116)

☐ Hypertension (112)

☐ Rats (112)

☐ Double-Blind Method (105)

☐ Biomarkers (103)

☐ Cardiovascular Diseases (100)

☐ Clinical trials (99)

☐ Signal transduction (99)

☐ Glycated Hemoglobin (98)

☐ Hypoglycemia (97)

☐ Dipeptidyl peptidase 4 inhibitors (96)

☐ Ventricular Function, Left (96)

☐ Mortality rate (95)

☐ Diabetic ketoacidosis (71)

☐ Albuminuria (69)

☐ Angiotensin II receptor antagonists (69)

☐ Stroke (68)

☐ Blood plasma (66)

☐ Blood serum (66)

☐ Diabetic Nephropathies (66)

☐ Hemoglobins (66)

☐ Retrospective Studies (66)

☐ Prospective Studies (65)

☐ Sulfonylureas (64)

☐ Type 1 diabetes (63)

☐ β-Adrenoceptor antagonists (62)

☐ Drug safety (62)

☐ Risk assessment (62)

☐ Insulin (61)

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SGLT-2抑制剂

二苯甲基类物质

心力衰竭

借助聚类分析选项，分析领域发文趋势

Filter Behavior

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Search Within Results

Document Type

Substance Role

Language

Publication Year

Author

Organization

Publication Name

Concept

CA Section

CAS Solutions

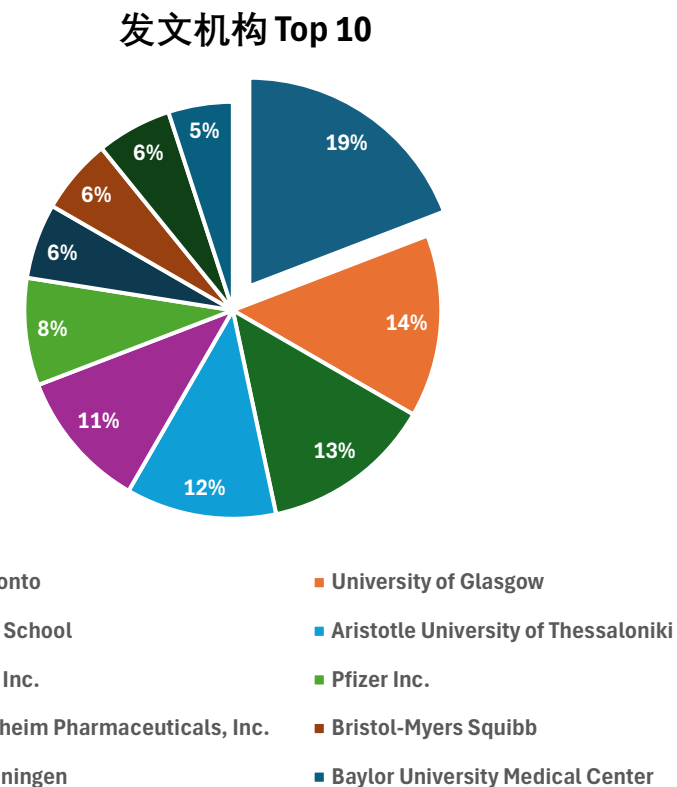
Bioactivity Data

Formulation Purpose

Database

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Select Quantity: ☒ All Filter Values ☐ Applied Filter Values

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Filters:

<input type="checkbox"/> Structure Match	<input type="checkbox"/> Publication Name
<input type="checkbox"/> Document Type	<input type="checkbox"/> Concept
<input type="checkbox"/> Substance Role	<input type="checkbox"/> CA Section
<input type="checkbox"/> Language	<input type="checkbox"/> CAS Solutions
<input type="checkbox"/> Publication Year	<input type="checkbox"/> Bioactivity Data
<input type="checkbox"/> Author	<input type="checkbox"/> Formulation Purpose
<input checked="" type="checkbox"/> Organization	<input type="checkbox"/> Database

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The screenshot displays the CAS SciFinder interface for a patent search. The search query is "Sodium glucose cotransporter-2" or "SGLT-2" and inhibi. The results are filtered by Document Type: Patent, showing 156 results. The left sidebar shows filters for Publication Name, Document Type, Substance Role, Language, Publication Year, Author, Organization, and Concept. The main results list shows two entries for "Preparation of C-triaryl glucosides as SGLT-2 inhibitors". The first entry is assigned to Chia Tai Tianqing Pharmaceutical Group Co., Ltd. and the second entry is assigned to World Intellectual Property Organization. The chemical structure of the C-triaryl glucoside is shown in the results.

Publication Name

- ☐ World Intellectual Property Organization (91)
- ☐ China (34)
- ☐ United States (11)
- ☐ Korea, Republic of (10)
- ☐ Japan (3)
- ☐ Canada (2)
- ☐ European Patent Organization (2)
- ☐ India (2)

Document Type

- ☐ Journal (2,113)
- ☒ Patent (156)
- ☐ Review (406)
- ☐ Clinical Trial (388)
- ☐ Commentary (63)

Substance Role

Language

Publication Year

Author

Organization

Publication Name

Concept

Filtering: Document Type: Patent X

156 Results

1

Preparation of C-triaryl glucosides as SGLT-2 inhibitors

Assignee: Chia Tai Tianqing Pharmaceutical Group Co., Ltd.
China, CN104059042 A 2014-09-24 | Language: Chinese, Database: CAplus

The present invention relates to a C-triaryl glucoside SGLT-2 inhibitor shown as formula I [wherein R¹ = halo, alkyl, or alkoxy; R² = H, halo, alkyl, alkoxy, CF₃, OCF₃, etc.], preparation methods, pharmaceutical compositions and uses thereof for treating diseases that benefit from inhibiting SGLT-2. Such diseases are diabetes, diabetic retinopathy, diabetic neuropathy, diabetic nephropathy, delayed wound healing, insulin resistance, hyperglycemia, hyperinsulinemia, elevated blood level of fatty acids, elevated blood level of glycerol, hyperlipidemia, obesity, hypertriglyceridemia, Syndrome X, ...

View More

PatentPak Full Text Substances (50) Reactions (110) Citing (1) Citation Map

2

Preparation of C-triaryl glucosides as SGLT-2 inhibitors

Assignee: Chia Tai Tianqing Pharmaceutical Group Co., Ltd.
World Intellectual Property Organization, WO2014146606 A1 2014-09-25 | Language: Chinese, Database: CAplus

The present invention relates to a C-triaryl glucoside SGLT-2 inhibitor shown as formula I [wherein R¹ = halo, alkyl, or alkoxy; R² = H, halo, alkyl, alkoxy, CF₃, OCF₃, etc.], preparation methods, pharmaceutical compositions and uses thereof for treating diseases that benefit from inhibiting SGLT-2. Such diseases are diabetes, diabetic retinopathy, diabetic neuropathy, diabetic nephropathy, delayed wound healing, insulin resistance, hyperglycemia, hyperinsulinemia, elevated blood level of fatty acids, elevated blood level of glycerol, hyperlipidemia, obesity, hypertriglyceridemia, Syndrome X, ...

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PatentPak Full Text Substances (50) Reactions (92) Citing (0) Citation Map

针对专利文献的现有技术分析，拓展对行业发展的了解

Preparation of C-triaryl glucosides as SGLT-2 inhibitors

50 110 1 Citation Map

In this Reference

- [IPC Data](#)
- [CAS Concepts](#)
- [Substances](#)
- [Reactions](#)

By: Zhao, Junling; Hu, Wenhui; Xu, Dengfeng; Ding, Yuyang; Yang, Ling; Xu, Hongjiang

The present invention relates to a C-triaryl glucoside **SGLT-2 inhibitor** shown as formula I [wherein R¹ = halo, haloalkyl, alkoxy, CF₃, OCF₃, etc.], preparation methods, pharmaceutical compositions and uses thereof for treating diseases from inhibiting **SGLT-2**. Such diseases are diabetes, diabetic retinopathy, diabetic neuropathy, diabetic nephropathy, insulin resistance, hyperglycemia, hyperinsulinemia, elevated blood level of fatty acids, elevated blood lipids, hyperlipidemia, obesity, hypertriglyceridemia, Syndrome X, atherosclerosis, or hypertension. The title compound exhibits high activity against **SGLT-2**, higher selectivity, improved drug metabolism properties in oral treatment, etc.

Keywords: preparation triaryl glucoside SGLT2 inhibitor treatment human diabetes

[PatentPak Viewer](#) [Get Prior Art Analysis](#) [Full Text](#)

References from Prior Art Analysis for "Preparation of C-triaryl glucosides as SGLT-2 inhibitor..."

Substances Reactions Citing Knowledge Graph

191 Results Sort: Relevance View: Partial Abstract

1

Preparation of antidiabetic agents C-aryl glucoside as human SGLT2 inhibitors

Assignee: Bristol-Myers Squibb Company
United States, US20020137903 A1 2002-09-26 | Language: English, Database: Caplus

A SGLT2-inhibiting compound is provided having the formula I method is also provided for treating diabetes and related diseases employing a SGLT2-inhibiting amount of the above compound alone or in combination with another antidiabetic agent or other therapeutic agent (no data). 1A pharmaceutical combination comprising a SGLT2 inhibitor compound and an antidiabetic agent other than a SGLT2 inhibitor, for treating the complications of diabetes, an antiobesity agent, an antihypertensive agent, an antilipidemic agent, an antiatherosclerotic agent, and/or a lipid-lowering agent (no data). A method ...

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[PatentPak](#) [Full Text](#) [Substances \(78\)](#) [Reactions \(40\)](#) [Citing \(11\)](#) [Citation Map](#)

2

Discovery of Dapagliflozin: A Potent, Selective Renal Sodium-Dependent Glucose Cotransporter 2 (SGLT2) Inhibitor for the Treatment of Type 2 Diabetes

By: Meng, Wei; Ellsworth, Bruce A.; Nirschl, Alexandra A.; McCann, Peggy J.; Patel, Manorama; Girotra, Ravindar N.; Wu, Gang; Sher, Philip M.; Morrison, Eamonn P.; Biller, Scott A.; et al
Journal of Medicinal Chemistry (2008), 51(5), 1145-1149 | Language: English, Database: Caplus and MEDLINE

6 Dapagliflozin

The C-aryl glucoside 6 (dapagliflozin) was identified as a potent and selective hSGLT2 inhibitor which reduced blood glucose levels in a dose-dependent manner by as much as 55% in hyperglycemic streptozotocin (STZ) rats. These findings, combined with a favorable ADME profile, have prompted clin. evaluation of dapagliflozin for the treatment of type 2 diabetes.

[Full Text](#) [Substances \(17\)](#) [Reactions \(21\)](#) [Citing \(480\)](#) [Citation Map](#)

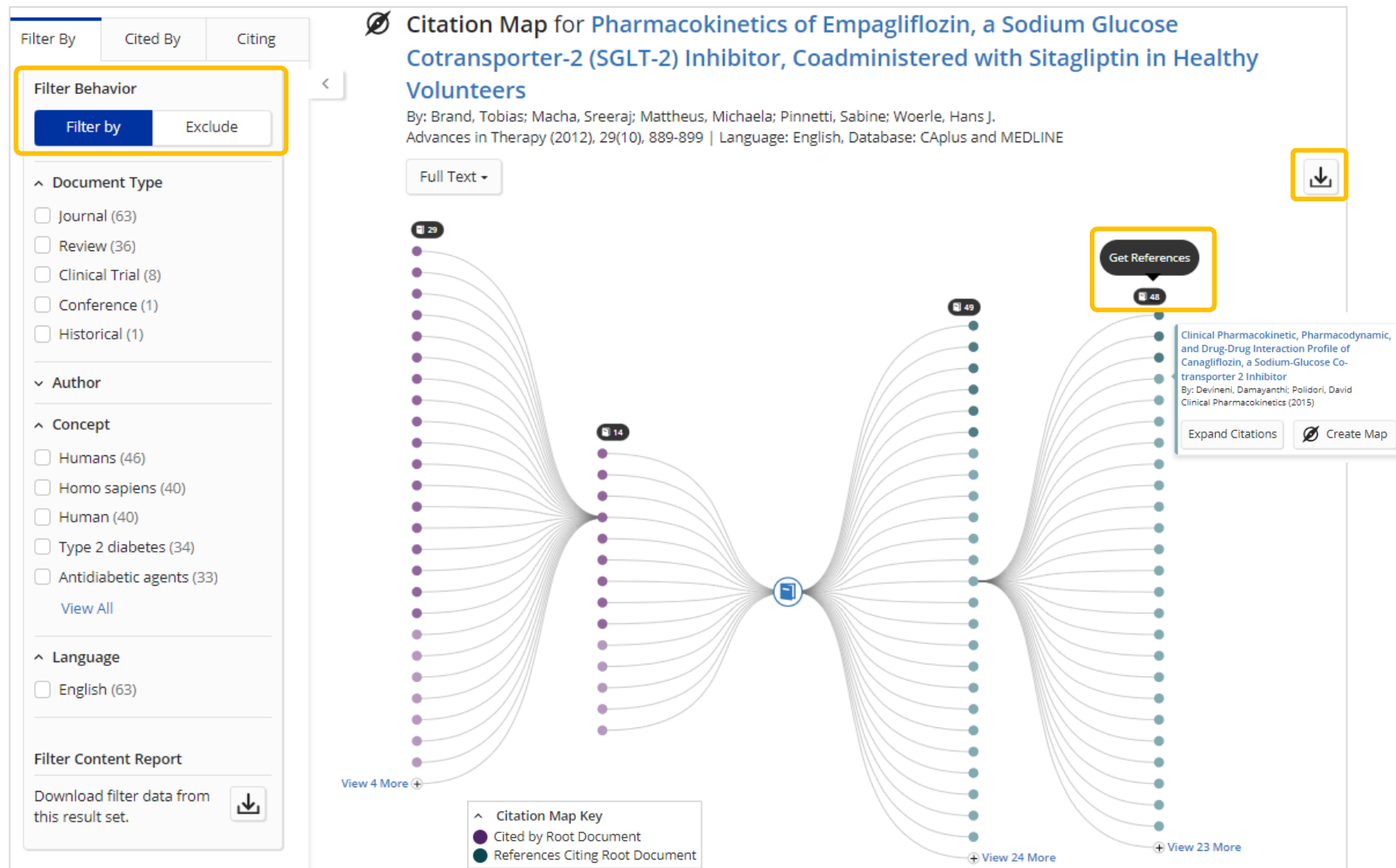
Recent Search History

References 2:23 PM	Prior Art Analysis (191) Preparation of C-triaryl glucosides as SGLT-2 inhibitors
-----------------------	--

[View Results](#)

Complete

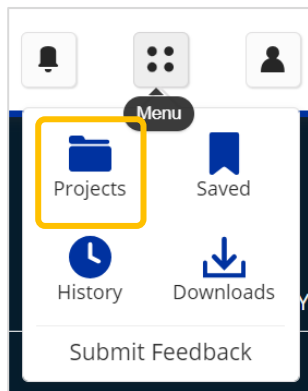
通过引文，了解关联的研究趋势和方向



Citation Map

- 可筛选
- 可拓展
- 可下载
- 可直接进入文献详情页面

Projects——便捷管理与分享文献、物质



右上角导航栏

Add to Project

Project Name
New Project Title

Add a Description

Project Color
Orange

Existing Projects Select up to one project
Diabetes

Sort: Created by You

1

Empagliflozin, a novel selective sodium glucose cotransporter-2 (SGLT-2) inhibitor: characterisation and comparison with other SGLT-2 inhibitors

By: Grempler, R.; Thomas, L.; Eckhardt, M.; Himmelsbach, F.; Sauer, A.; Sharp, D. E.; Bakker, R. A.; Mark, M.; Klein, T.; Eickelmann, P. Diabetes, Obesity and Metabolism (2012), 14(1), 83-90 | Language: English, Database: CAPus and MEDLINE

Aims: Empagliflozin is a selective sodium glucose cotransporter-2 (SGLT-2) inhibitor in clin. development for the treatment of type 2 diabetes mellitus. This study assessed pharmacol. properties of empagliflozin in vitro and pharmacokinetic properties in vivo and compared its potency and selectivity with other SGLT-2 inhibitors. Methods: [¹⁴C]-alpha-Me glucopyranoside (AMG) uptake experiments were performed with stable cell lines over-expressing human (h) SGLT-1, 2 and 4. Two new cell lines over-expressing hSGLT-5 and hSGLT-6 were established and [¹⁴C]-mannose and [¹⁴C]-myo-inositol uptake ass...

View More

Full Text

Substances (8)

Reactions (0)

Citing (463)

Citation Map

CAS Registry Number: 60-81-1

6,913 130 93

3

864070-44-0

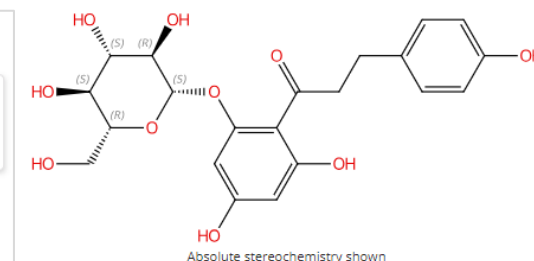
Save

Add to Project

O[C@H]1O[C@H](OC(=O)CCc2ccc(O)cc2)[C@H](O)[C@@H](O)[C@@H]1O
Absolute stereochemistry shown

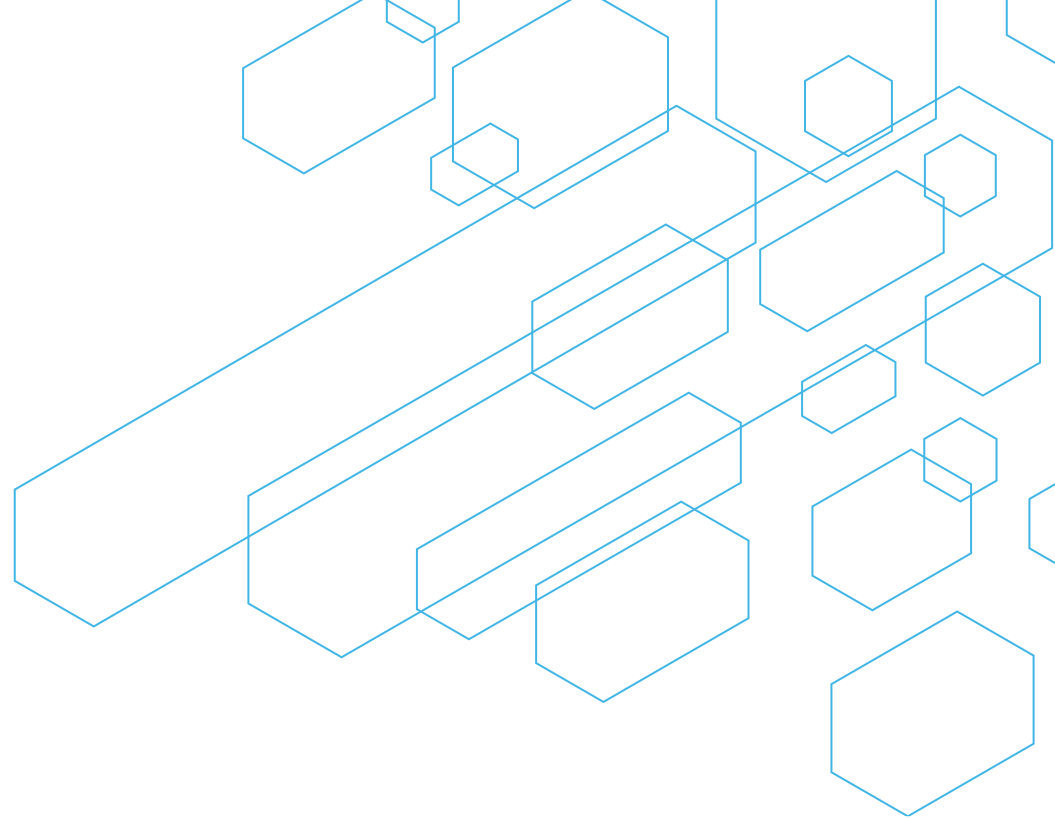
C₂₃H₂₇ClO₇
Empagliflozin

3,628 References 583 Reactions 78 Suppliers



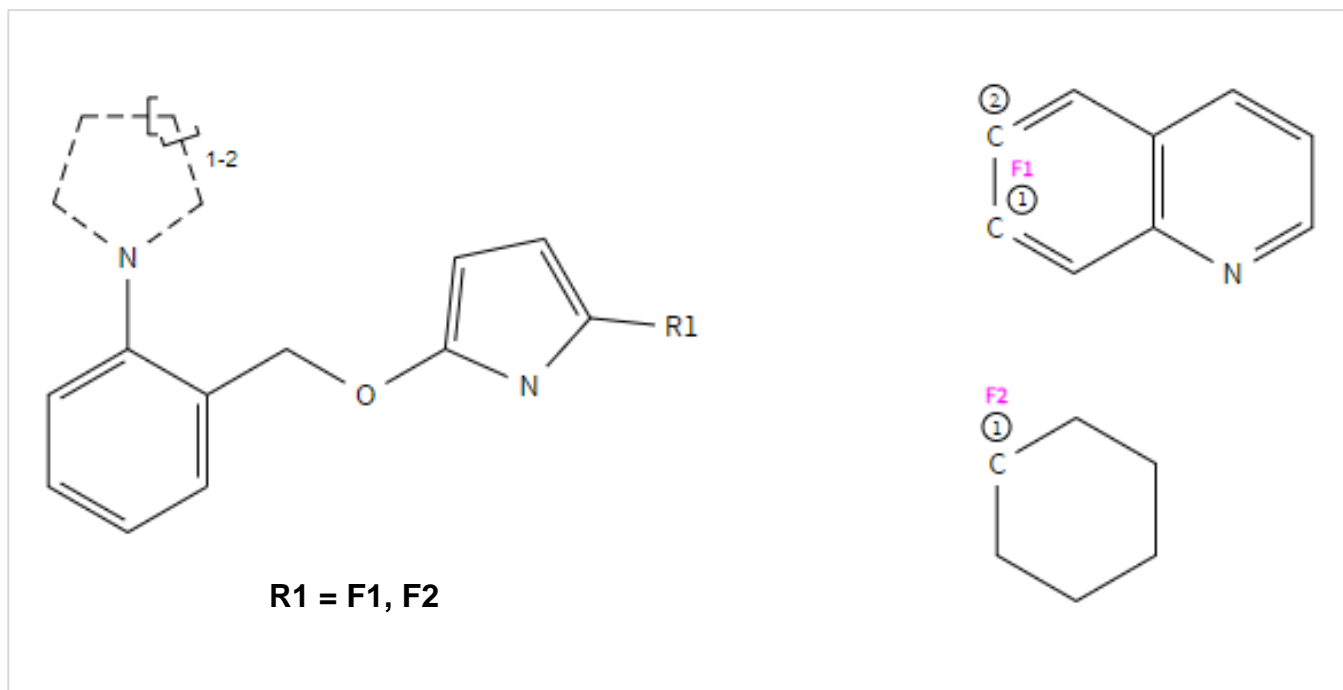
提纲

- CAS 简介
- CAS SciFinder Discovery Platform 助攻论文写作
 - 研究背景：研究现状和发展趋势的全面调研
 - 实验设计：课题的创新性及已有相关实验报道
 - 结果分析：数据的比对及关联研究检索拓展
- Q&A



聚焦物质/材料结构层面的查新

我设计的结构是否有公开报道？



R

自定义R基团

Fn

片段结构

[]

1-4

重复工具

...

不确定键级

物质结构的数据来源

What is claimed is:

1. Compound represented by the following Chemical formula 1 or Chemical formula 2, an enantiomer thereof, a diastereomer thereof, or a pharmaceutically acceptable salt thereof:

[Chemical formula 1]

or

[Chemical formula 2]

wherein

X¹ is O, S or —N(CH₂CH₃)—,

X² and X³ are each independently N or CH,

Y is absent, or, is —CH₂—; —CH₂NH—; —C(=O)—; —CH₂CH₂—; —NH—; —NHC(=O)—; —C(=O)NH—; —CH(CH₃)—; —CF₂—; —CH(OCH₃)—; —CH₂O—; —N(CH₃)—; or —CH₂NHC(=O)—,

Z is absent, or, is —CH₂S—; —CH₂S(=O)—; —CH₂NH—; —CH(R¹)S—; —CH₂CH₂S—; —CH₂N(CH₃)—;

—CH₂N(CCH₃)—;

—CH=CH—; —S—; —CH₂—; —O—; —CH₂S(=O)—;

—C(=O)—; —SCH₂—; —CH₂CH₂—; —CH(OH)—; —CH(CH₃)CH—; —OCH₃—; —C(=O)—

CAS PatentPak

Key Substances in Patent

CAS RN 7272-84-6

Analyst Marking Locations (1)

CAS RN 1704613-20-6

Analyst Marking Locations (1)

CAS RN 705774-34-7

Analyst Marking Locations (1)

WO 2016/081554

PCT/US2015/061260

a. an inhibitor selected from the group consisting of a ROCK inhibitor, a PTEN inhibitor and a combination thereof;

b. a growth factor selected from the group consisting of EGF, FGF and a combination thereof; and

c. N-acetyl cysteine,

wherein the composition is effective to treat a wound from a blood sample obtained from a patient.

14. The composition according to claim 13, wherein the growth factor is selected from the group consisting of Y-27632, Thiazolidine, (1-aminoethyl)-N-(4-pyridyl) benzamide, Diazepam-1-sulfonylisoquinoline (Fasudil), indole (Rockout®), SR 3677 dihydrochloride, dihydrochloride, GSK 269962, HA 1100, hydrochloride.

7272-84-6

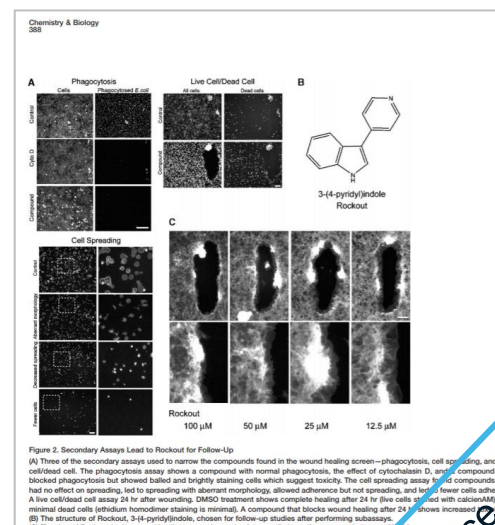
C₁₃H₁₀N₂

3-(4-Pyridinyl)-1H-indole

64 References

23 Reactions

29 Suppliers



CAS Registry Number: 1809249-37-3

References (3,472)

Reactions (643)

Suppliers (51)

Chemical structure of 3-(4-pyridinyl)-1H-indole

Absolute stereochemistry shown

Additional Details

Document Types

Journal, Patent, Preprint

Source of Registration

CAS Client Services

Substance Classes

Small Molecule

CAS Registry Number: 1704613-20-6

References (0)

Reactions (0)

Suppliers (2)

Chemical structure of 1704613-20-6

Additional Details

Source of Registration

Chemical Catalog; Supplier: Aurora Fine Chemicals

Substance Classes

Small Molecule

WO2018062978

Preparation of heteroaryl compounds as antiviral agents

By: Min, Ji Young; Chang, So Young; Lee, Ji Hye; Kang, Sun Hee; Kong, Sun Ju; Jo, Su Yeon; Park, Kaapjoo; Kim, Young Mi; Choi, Junghwan

World Intellectual Property Organization, WO2018062978 A1 2018-04-05 | Language: Korean, Database: CAplus

Assignee: Institut Pasteur Korea

Patent claim 1

PatentPak

Full Text

378,379,381,382,384: opt. substd. by G16

Patent

Journal

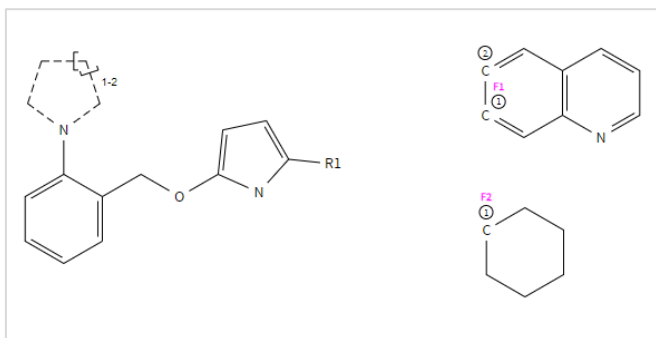
CAS REGISTRY

Chemical catalog/library

Other web sources

示例：片段结构组合查新

CAS 物质数据集 CAS REGISTRY® 是专利审查员进行新颖性判断的重要依据



- CAS Registry中As Drawn为0，初步判断此结构比较新
- 可辅以查看相似结构，参考相似度评分

Substances search for drawn structure

References Reactions Suppliers

Structure Match

- As Drawn (0)
- Substructure (0)
- Similarity (84)

Chemscape Analysis

Visually explore structure similarity with a powerful new tool.
[Learn more about Chemscape.](#)

Create Chemscape Analysis

Filter Behavior

Filter by Exclude

Search Within Results

Similarity

- 65-69 (1)
- 60-64 (83)

84 Results

Sort: Relevance View: Partial

1 65 ...

2609946-75-8

C16H20N2O
1-(2-Ethoxy-3-pyridinyl)-4,5,6,7-tetrahydro-2-methyl-1H-indole

References Reactions Supplier

2 65 ...

2617388-78-8

C18H22N2O
1-[6-(Cyclopropylmethoxy)-3-pyridinyl]-4,5,6,7-tetrahydro-2-methyl-1H-indole

References Reactions Supplier

3 65 ...

2514950-96-8

C14H12N2O
5-(Phenylmethoxy)-6H-pyrrolo[2,3-c]pyridine

References Reactions Supplier

4 64 ...

2546022-47-1

C15H18N2O
4,5,6,7-Tetrahydro-1-(2-methoxy-3-pyridinyl)-2-methyl-1H-indole

References Reactions Supplier

5 64 ...

2646187-89-3

C19H24N2O
1-[6-(Cyclobutylmethoxy)-3-pyridinyl]-4,5,6,7-tetrahydro-2-methyl-1H-indole

References Reactions Supplier

6 64 ...

2579024-40-9

C16H20N2O
1-(6-Ethoxy-3-pyridinyl)-4,5,6,7-tetrahydro-2-methyl-1H-indole

References Reactions Supplier

Structure Match的说明: <https://cas-product-help.zendesk.com/hc/en-us/articles/9945764238477-Filter-Substances-by-Structure-Match>

相似度评分: <https://cas-product-help.zendesk.com/hc/en-us/articles/11112258474125-What-are-similarity-scores>

示例：片段结构组合查新

CAS 专利马库什数据集是专利审查员进行可专利性评估的重要参考依据

- 马库什检索可以使用具体结构、骨架结构和通式结构来进行迭代检索，确保获得完整的公开结构信息
- 可以根据必要性使用 CAS 文献数据集 CAplus 进行文本检索补充

The screenshot displays the CAS SciFinder web interface. At the top, there is a search bar with the text "Enter a query..." and a "Substances" dropdown menu. To the right of the search bar are icons for "Edit", a magnifying glass, a notification bell with a "5" badge, a grid icon, and a user profile icon.

Below the search bar, there is a "Return to Home" link and a "Patent Markush search for drawn structure" section. This section includes a "References" dropdown menu and a "Patent Markush Match" section. The "Patent Markush Match" section has two buttons: "As Drawn (0)" and "Substructure (1)". The "Substructure (1)" button is highlighted with a blue background and a white arrow.

Below the "Patent Markush Match" section is a "Filter Behavior" section with a "Filter by" button and an "Exclude" button. Below this is a "Patent Office" section with a "World Intellectual Property Organization (1)" checkbox. Below that is a "CA Section" section.

On the right side of the interface, there is a drawing tool with a "Edit Drawing" button and a "Remove" button. Below the drawing tool is a "Search Patent Markush" checkbox, which is checked and highlighted with a yellow box. Below this checkbox is a yellow box with the text "Patent Markush search uses structures only."

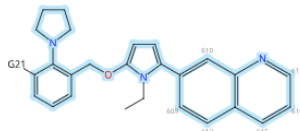
The main results section shows "1 Result" and "1" under a checkbox. The result is for patent WO2018062978, titled "Preparation of heteroaryl compounds as antiviral agents". The assignee is "Institut Pasteur Korea". The patent is from the "World Intellectual Property Organization" and was filed on "2018-04-05". The language is "Korean" and the database is "CAplus". The patent claim is "Patent claim 1". The claim text is "609,610,613,615,616,617: opt. substd. by G15".

借助CAS科学家的智慧，快速在专利中发现关键物质

CAS PatentPak 模式浏览专利原文

1

WO2018062978



Preparation of heteroaryl compounds as antiviral agents

Assignee: Institut Pasteur Korea
World Intellectual Property Organization, WO2018062978 A1 2018-04
Korean, Database: CAplus

Patent claim 1

PatentPak

Full Text

专利家族

Patent	Language	Kind Code	PatentPak Options
WO2018062978	Korean	A1	PDF PDF+ Viewer
KR2018036415	Korean	A	PDF PDF+ Viewer
US20200031816	English	A1	PDF
US11149033	English	B2	PDF

CAS PatentPak

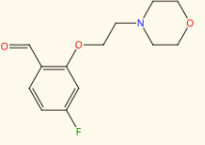
PAGE 90 / 181

ZOOM

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Key Substances in Patent

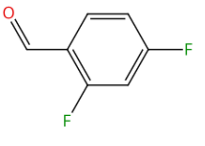
CAS RN 2215970-09-3



Analyst Markup Locations (1)

Page 90

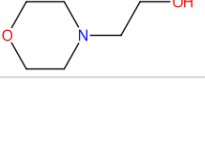
CAS RN 1550-35-2



Analyst Markup Locations (1)

Page 90

CAS RN 622-40-2



Analyst Markup Locations (1)

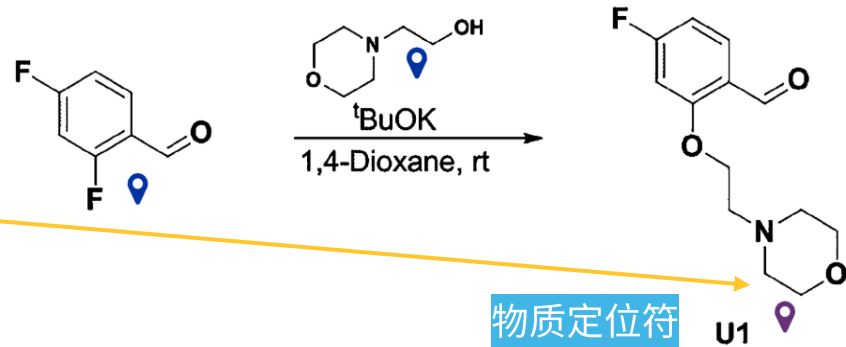
Page 90

화학물질은 다음과 같다.

[1003] [실시예 23]

[1004] 반응식 21을 이용한 화합물의 제법

[1005]



物质定位符 U1

[1006] U1 합성 절차

[1007] 1,4-디옥산 (3 mL) 중의 2,4-디플루오로벤즈알데하이드 (3.52 mmol) 및 *t*-BuOK (4.22 mmol) 용액에 2-모폴리노에탄-1-올 (4.22 mmol)을 첨가하고, 반응 혼합물을 25 °C에서 24시간 동안 교반하였다. 반응 완결 후, EtOAc로 혼합물을 희석시키고, 물로 세척하였다. 무수 MgSO₄ 상에서 유기층을 건조시키고 진공에서 농축하였다. 컬럼 크로마토그래피로 크루드 잔여물을 정제하여 (*n*

持续关注研究前沿信息，设置定题追踪

文献、物质、反应、专利马库什检索结果均可设置提醒

Patent Markush search for drawn structure

References ▾

Patent Markush Match

As Drawn (0)

Substructure (1)

Filter Behavior

Filter by Exclude

Patent Office

☐ World Intellectual Property Organization (1)

CA Section

1 Result

1

WO2018062978

Preparation of heteroaryl compounds a:

Assignee: Institut Pasteur Korea
World Intellectual Property Organization, WO2018062978 A1 2018-04-05 | Language: Korean, Database: CAplus

Patent claim 1

PatentPak Full Text

609,610,613,615,616,617: opt. substd. by G15

Save and Alert

Share Results

Copy Search to Clipboard

Save Result

Name

Test Markush

Search Options

☐ Query Only ☐ Selected Answers ☒ All Answers (Up to 20,000)

Add Existing Tags (Optional)

☐ Agriculture ☐ Chinese Medicine ☐ Cigarette ☐ Diabetes ☐ Food ☐ Herb

New Tag (Optional)

Add tag name

Tag Color

Light Blue

Alerts ☒

Frequency

As Available

Add Email(s)

Add Recipient(s)

Cancel Save

提醒频率：

- 即时提醒
- 每周提醒
- 每月提醒

参考已有的合成制备方法

Structure Match

- As Drawn (0)
- Substructure (2,603)**
- Similarity (67K)

Filter Behavior

Filter by Exclude

Search Within Results

Yield

Number of Steps

Non-Participating Functional Groups

- ☐ Ether (402)
- ☒ Halide (402)
- ☐ Phenyl halide (300)
- ☐ Carbamate (291)
- ☐ Alkene (116)
- [View All](#)

Reaction Mapping

Reaction Scale

- ☐ Milligram (45)
- ☐ Gram (20)
- ☐ Kilogram (1)
- ☐ No Scale Provided (336)

Experimental Protocols

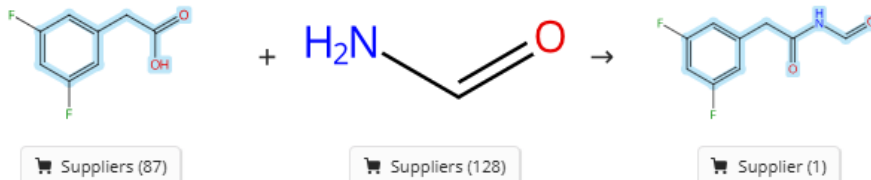
- ☐ Synthetic Methods (133)
- ☐ Experimental Procedure (85)

Filtering: Non-Participating Functional Groups: Halide X Clear All Filters

402 Results

Group: By Scheme Sort: Relevance View: Expanded

Scheme 1 (1 Reaction) Steps: 1



31-367-CAS-9914102 Steps: 1

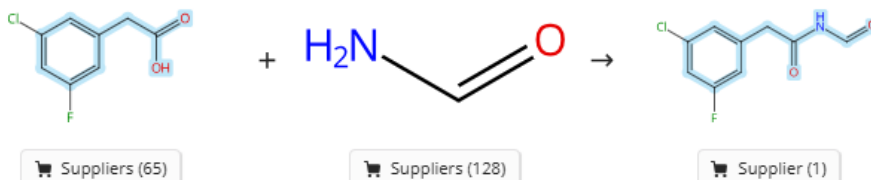
1.1 Reagents: Oxalyl chloride
Solvents: Toluene; 2 h, 110 °C
1.2 Reagents: Pyridine
Solvents: Acetone; cooled; 30 min, 5 °C; overnight, rt

Preparation of 2-aminopyridine as kinase inhibitors
Assignee: OSI Pharmaceuticals, Inc.
United States, US20090197862 A1 2009-08-06

PatentPak Full Text

Collapse Scheme

Scheme 2 (1 Reaction) Steps: 1



31-367-CAS-5023742 Steps: 1

1.1 Reagents: Oxalyl chloride
Solvents: Toluene; 2 h, 110 °C
1.2 Reagents: Pyridine
Solvents: Acetone; cooled; 30 min, 5 °C; overnight, rt

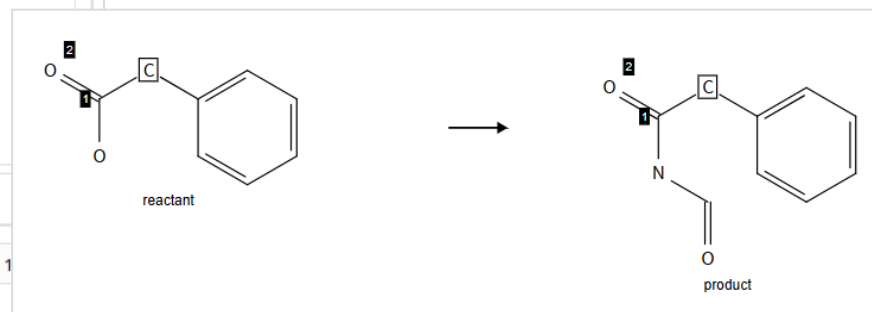
Preparation of 2-aminopyridine as kinase inhibitors
Assignee: OSI Pharmaceuticals, Inc.
United States, US20090197862 A1 2009-08-06

PatentPak Full Text

不参与反应官能团

反应规模

By Scheme
By Document
By Transformation



参考Synthetic Methods中CAS科学家对合成实验的描述

CAS Reaction Number: 31-367-CAS-9910920

Get Similar Reactions

Experimental Protocols

- ☒ Synthetic Methods (133)
- ☐ Experimental Procedure (85)

Suppliers (48) Suppliers (101)

70%

Reaction Overview

Steps: 1 Yield: 70%

JOURNAL

On the reaction of carboxylic acids and isocyanides with conventional heating
By: Polisar, Jason G.; et al
View All
Tetrahedron (2012), 68(49), 10236-10240
View Source Full Text

Company/Organization

Department of Chemistry
Columbia University
New York, New York 10027

Step 1

Stage	Reagents	Catalysts	Solvents	Conditions
1	-	-	Toluene	18 - 24 h, 110 °C

Alternative Steps (0)

Experimental Protocols

Synthetic Methods

Products [N-\(4-Bromophenyl\)-4-chloro-N-formylbenzeneacetamide](#), Yield: 70%

Reactants [\(4-Chlorophenyl\)acetic acid](#)
[1-Bromo-4-isocyanobenzene](#)

Solvents [Toluene](#)

Procedure

1. Filter the two equivalent of the isocyanide in 1 mL dry toluene through a short plug (approximately 0.5 cm in a 5 inch glass pipette) of silica gel into a flame dry 50 mL round bottom flask containing the carboxylic acid.
2. Flush the plug with an additional milliliter of toluene.
3. Add the remainder of the toluene (0.02 M final acid concentration) to the mixture.
4. Seal the reaction vessel with a wire secured septum.
5. Blanket the reaction vessel under argon.
6. Heat the reaction vessel as a sealed tube in a 110 °C oil bath overnight (18-24 hours).
7. Remove the volatile residues in vacuo.
8. Purify the product by silica gel flash chromatography in 4:1 hexanes:ethyl acetate.

Transformation

Acylation of Nitrogen Nucleophiles by Carboxylic Acids
Addition of Water to Isocyanides

清晰的操作流程

Scale

milligram

Characterization Data

[N-\(4-Bromophenyl\)-4-chloro-N-formylbenzeneacetamide](#)

产物表征

Proton NMR Spectrum

¹H NMR (300 MHz, CDCl₃): δ= 3.59 (s, 2H, Ar-CH₂), 6.94-7.0 (m, 4H, Ar), 7.25-7.28 (m, 2H, Ar), 7.59-7.63 (m, 2H, Ar), 9.53 (s, 1H, CHO) ppm.

Carbon-13 NMR

¹³C NMR (75 MHz, CDCl₃): δ= 42.33, 124.03, 129.07, 130.58, 130.67, 130.77, 133.34, 133.97, 162.38, 172.68 ppm.

IR Absorption Spectrum

IR (cm⁻¹): 1724, 1701.

Mass Spectrum

MS: 351.76/352.76/353.76/354.76/355.76 (M+1).

State

Pale yellow oil.

Transformations

1. Acylation of Nitrogen Nucleophiles by Carboxylic Acids
2. Addition of Water to Isocyanides

反应转化类型

Reaction Notes

chemoselective, sealed tube used

反应注释

参考CAS Analytical Methods中分析方法详情的描述

<https://methods.cas.org/>

Analysis of Methylparaben in Sunscreens by Surface treatment

CAS Method Number
1-118-CAS-443216

Method Category
Cosmetic Analysis

方法类别

Technique
HPLC-tandem mass spectrometry; Surface treatment

Analyte

Propylparaben
Ethylparaben
Methylparaben

分析物

Matrix

Sunscreens
Cosmetic creams

基质

Material

[1,4-Benzenedicarboxylato(2-)- κ O²]hydroxyaluminum
PEEK tubes (1/16 inch o.d.,
750 μ m i.d.)

View All

所用材料

Reagent

Acetic acid
Acetone
Aluminum trichloride
hexahydrate
Acetonitrile

View All

所用试剂

Instructions

Preparation of cosmetic samples

1. Dissolve 1.0 g of sunscreen cream sample in a solution of 20 mL water and 20 mL methanol.
2. Dilute 250 mL solution to 20 mL with water and add 20 mL methanol.
3. Dissolve 1.0 g of day cream sample in a solution of 20 mL water and 20 mL methanol.
4. Dilute 50 mL cream solution to 50 mL with water.
5. Add 250 mL of diluted solution into 20 mL water and 20 mL methanol.
6. Use the prepared sunscreen cream and day cream samples for analysis.

Preparation of standard stock solutions of parabens

1. Prepare 10 mg/mL stock solutions of methyl paraben, ethyl paraben, and propyl paraben in methanol.
2. Add 20 mL of 10 mg/mL standard solutions into 20 mL of 1% acetonitrile in methanol.

Functionalization of the poly(ether-ether ketone) (PEEK) tubes

1. Wash a 3 cm PEEK tube (1/16 inch o.d., 750 μ m i.d.) with methanol.
2. Dip the PEEK tube in 98% concentrated sulfuric acid for 2 h.
3. Etch the PEEK tube in a 0.012 g/mL solution containing 1% acetic acid under ultrasonic.
4. Allow to react for 6 h at 120 $^{\circ}$ C.
5. Rinse the reductive PEEK tube with methanol, water, and acetone.
6. Dry the washed tube under nitrogen at room temperature.
7. Store the reductive PEEK tube in nitrogen for further use.
8. Introduce a solution of 0.3 g of 4-aminobenzoic acid in 10 mL of 1% acetic acid in methanol.
9. Immerse the reductive PEEK tube into the solution for 2 h.

Validation

Linearity Range

0.005 - 15 ng/mL, Methylparaben
0.005 - 15 ng/mL, Ethylparaben
0.005 - 15 ng/mL, Propylparaben

Limit of Detection

2 pg/mL, Methylparaben
1 pg/mL, Ethylparaben
1 pg/mL, Propylparaben

Limit of Quantitation

6 pg/mL, Methylparaben
3 pg/mL, Ethylparaben
3 pg/mL, Propylparaben

Recovery

88.48, 99.93 and 89.41% in 1.5, 1.5 and 15 μ g/g added concentrations, respectively (sunscreen cream), Methylparaben
99.93, 101.82 and 93.23% in 1.5, 1.5 and 15 μ g/g added concentrations, respectively (sunscreen cream), Ethylparaben
95.40, 101.61 and 96.93% in 1.5, 1.5 and 15 μ g/g added concentrations, respectively (sunscreen cream), Propylparaben
78.92, 103.29 and 96.96% in 0.015, 1.5 and 15 μ g/g added concentrations, respectively (sunscreen cream), Methylparaben
73.25, 95.40 and 95.33% in 0.015, 1.5 and 15 μ g/g added concentrations, respectively (sunscreen cream), Ethylparaben
88.37, 104.23 and 95.35% in 0.015, 1.5 and 15 μ g/g added concentrations, respectively (sunscreen cream), Propylparaben

操作步骤

Fabrication of dumbbell-shaped PEEK jacket stir bar

1. Use a dumbbell-shaped PEEK jacket stir bar consisting of PEEK tube as the jacket, metal core and dumbbell-shape.
2. Insert a metal pin into the PEEK tube in order to stir under magnetic field.
3. Burn the polypropylene pipette tips by fire and drop at both ends of the PEEK tube to form a dumbbell-shaped support.

MIL-68 modified PEEK jacket stir bar sorptive extraction (SBSE)

1. Perform extraction in a 50 mL beaker with a cover of parafilm.
2. Add 20 mL of sample solution (pH 6.0, containing 1% acetonitrile, v/v) into the beaker with the MIL-68-PEEK stir bar in the solution.
3. Maintain the stirring of the stir bar with a magnetic stirring apparatus at a speed of 300 r/min for 2 h.
4. Place the stir bar into a small tube filled with 250 mL methanol.
5. Perform elution by a mini vortex meter from Shanghai Huxi Analysis Instrument Factory (Shanghai, China) for 10 min to desorb the analytes.
6. Use 5 μ L of eluent for HPLC analysis.

Determination of parabens in cosmetic samples by HPLC-MS/MS

1. Perform analysis using a Shimadzu 20A HPLC system (Tokyo, Japan) coupled with atmospheric pressure electrospray ionization-ABSCIEX 4000 QTRAP (Washington, D.C., USA) and consisting of two pumps, a degasser, a thermostat controlled column compartment and an autosampler.
2. Perform chromatographic separation in a C-18 column (250 mm \times 4.6 mm i.d.) with 5 μ m particle size from GL science (Tokyo, Japan) using a mobile phase consisting of acetonitrile and water (27/13, v/v).
3. Set the flow rate at 0.4 mL/min.
4. Perform electrospray ionization-mass spectrometry in negative ion mode.
5. Perform detection using multiple reaction-monitoring models.
6. Collect data using a software developed by AB SCIEX named Analyst.

Precision

6.02, 3.34 and 2.20% (RSD, intra-day reproducibility); 9.74, 7.64 and 5.29% (RSD, interday reproducibility) in 0.01, 1 and 10 ng/mL concentrations, respectively, Methylparaben
5.49, 3.16 and 3.13% (RSD, intra-day reproducibility); 6.03, 9.52 and 6.98% (RSD, interday reproducibility) in 0.01, 1 and 10 ng/mL concentrations, respectively, Ethylparaben
4.98, 4.38 and 3.69% (RSD, intra-day reproducibility); 8.43, 9.45 and 7.03% (RSD, interday reproducibility) in 0.01, 1 and 10 ng/mL concentrations, respectively, Propylparaben

Concentration

0.0222 μ g/g (sunscreen cream), Methylparaben
0.0143 μ g/g (sunscreen cream), Ethylparaben
0.0092 μ g/g (sunscreen cream), Propylparaben
1.224 mg/g (day cream), Methylparaben
1.191 mg/g (day cream), Ethylparaben
0.564 mg/g (day cream), Propylparaben

Source

JOURNAL

文献来源

Covalent immobilization of metal organic frameworks onto chemical resistant poly(ether ether ketone) jacket for stir bar extraction

Wang, Chenlu; Zhou, Wei; Liao, Xiaoyan; Wang, Xuemei; Chen, Zilin

Analytica Chimica Acta (2018), 1025, 124 - 133. Elsevier B.V.

CODEN : ACACAM | ISSN : 00032670 | DOI : 10.1016/j.aca.2018.04.056

View Abstract

Full Text

Equipment Used

所用仪器

Mini vortex meter, Shanghai Huxi Analysis Instrument Factory, Shanghai, China

HPLC system, 20A, Shimadzu, Tokyo, Japan

Atmospheric pressure electrospray ionization system, 4000 QTRAP, ABSCIEX, Washington, D.C., USA

参考CAS Formulus中制剂/配方详情的描述

<https://formulus.cas.org/>

Water-Soluble High-Concentration Organic-Inorganic Complex Fertilizer for Drip Irrigation and Sprinkler Irrigation

用途

目标

递送途径

Physical Form

Source

Purpose	Target	Delivery Route	Physical Form	Source
Fertilizers	Crop (plant)	drip irrigation, sprinkler irrigation	-	View

用量

成分

作用

用量

Component	Function	Amount	Notes
Group: Carbendazim	-	10	
liquid yellow humic acid	-	75	
Group: inorganic complex fertilizer	-	25	
Potassium chloride	inorganic complex fertilizer	1 r	
Superphosphates	inorganic complex fertilizer	3 r	
Ammonium bicarbonate	inorganic complex fertilizer	2 r	
molasses fermentation liquid	-	80	
Group: reed decomposing agent	-	75	
Cyanobacteriota	-	55	
Polyacrylamide	Water-retaining soil amendments	30-60 mass. parts	Mandatory
Poly(L-aspartic acid)	Fertilizers [®]	8-20 mass. parts	Mandatory
Water	Solvents [®]	600-750 mass. parts	Mandatory

制备过程

文献来源

Process

the method for preparing a water-soluble high-concentration organic-inorganic compound fertilizer for drip irrigation, characterized in that it comprises the following steps: S1. add liquid yellow humic acid, inorganic compound fertilizer, reed decomposing agent, cyanobacteria, water retention agent, polyaspartic acid, water, and multi-bacteria into the reaction kettle, mix and dissolve in the kettle, and then add the molasses fermentation broth and stir evenly and ferment in the open air for 5-7 days; S2. the product after open-air fermentation in step S1 is heated to 180-185 °C under stirring, and reacted for 30-45 minutes, and then the temperature is increased to 200-205 °C for 1.5-2 hours; S3. after the reaction is completed, the temperature in the reactor is lowered to room temperature, enter the disc granulator to granulate, and dry to obtain a water-soluble high-concentration organic-inorganic compound fertilizer for drip irrigation.

Source Patent

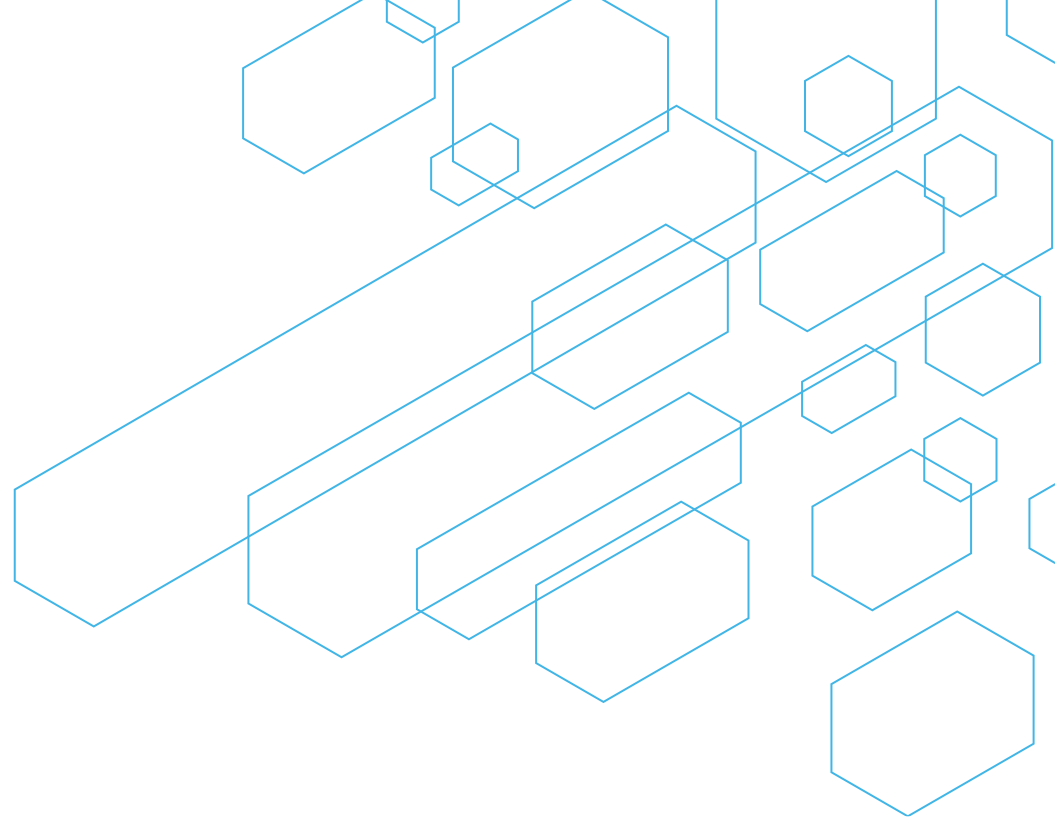
Water soluble high concentration organic inorganic compound fertilizer for drip and spray irrigation and preparation method thereof

Assignee : Shandong Sunway Landscape Technology Co., Ltd.
CN106316708
Language: Chinese
Location: Claim 1, 4, 5, 6, 7, 8, 9

[Patent PDF](#)[View in CAS SciFinder](#)

提纲

- CAS 简介
- CAS SciFinder Discovery Platform 助攻论文写作
 - 研究背景：研究现状和发展趋势的全面调研
 - 实验设计：课题的创新性及已有相关实验报道
 - 结果分析：数据的比对及关联研究检索拓展
- Q&A



生物序列一致性的比对

支持BLAST, CDR, Motif检索

References from your sequence

Substances Reactions Citing Knowledge Graph

Filter Behavior

Filter by Exclude

Search Within Results

Document Type

Patent (44)

Language

Publication Year

Author

Organization

Publication Name

United States (41)

European Patent Organization (2)

Mexico (1)

Concept

CA Section

Database

44 Results

Sort: Publication Date: Newest

1

Genetic vectors containing regulatory sequence for plants

Assignee: Ceres, Inc.

United States, US10329575 B2 2019-06-25 | Language: English, Database: CAPLUS

The present invention provides DNA mols. as shown in SEQ ID NO:2199 that constitute fragments of the genome of a plant, and polypeptides encoded by the DNA mols. are useful for specifying a gene product in cells as regulatory sequences. One of ordinary skill in the art, can obtain cloned DNA fragments, synthetic DNA fragments or polypeptides constituting desired sequences by the methodol. known in the art or described therein.

PatentPak Full Text

Substances (2) Reactions (0) Citing (0)

2

Sequence-determined DNA fragments encoding Arabidopsis thaliana peptide transport proteins

Assignee: Ceres, Inc.

United States, US20150315251 A1 2015-11-05 | Language: English, Database: CAPLUS

The present invention provides DNA mols. that constitute fragments of the genome of a plant, and polypeptides encoded by the DNA mols. are useful for specifying a gene product in cells, either as a promoter or as a protein coding sequence, or as a 3' termination sequence, and are also useful in controlling the behavior of a gene in the chromosome, in controlling the expression of a gene or as tools for genetic mapping, recognizing or isolating identical or related DNA fragments, or for clustering of a group of organisms with a particular individual organism, or for clustering of a group of organisms with a particular individual organism.

View More

PatentPak Full Text

Substance (1) Reactions (0) Citing (0)

Sequences search for your query

References

BLAST Search Details

Sequence Type: Nucleotide

Search Within: Nucleotides

BLAST Algorithm: BLASTn

NCBI Included: Yes

Alignment Identity: 80%

Query Coverage: 90%

E-Value: 10

Match with Gaps?: No

Gap Costs: Existence 5

Extension 2

Word Size: 11

Bioscape Analysis

Visually explore sequence similarity with a new tool.

Learn more about Bioscape.

Create Bioscape Analysis

Filter by

E-Value

Query Coverage %

Subject Coverage %

Alignment Identity %

Sequence Length

95 to 496

Organisms

Search CAS Sequences

Query BLAST, CDR, and Motif algorithms for nucleotide and protein based sequences.

Download Bookmark

Query Details AACAAACAATATCAATCTACTGGTGGCACAACCTTGA View More

40 Results

Sort: Alignment Identity View: Expanded

1

Alignment Identity: 100%

Query 1

Subject 1

Matches: 39

Mismatches: 0

View Less

Alignment Subject References

Alignment Data

BLAST Score: 78

E-Value: 7.79264e-12

Q 1 AACAAACA TATCAATCC TACTGGTGGC ACAACTTGA 39

S 393 AACAAACA TATCAATCC TACTGGTGGC ACAACTTGA 431

2

Alignment Identity: 100%

Query 1

Subject 1

Matches: 39

Mismatches: 0

View Less

通过底层数据的密切关联，可直接获取报道文献。

通过属性需求，获取相似材料

灵活联用物质高级检索选项

检索示例：满足多属性值要求的轻质合金，密度<7g/cm³、拉伸强度>1000MPa、熔点>600°C

The screenshot displays the CAS search interface with the following components:

- Search Bar:** Search by Substance Name, Functional Group, CAS RN, Patent Number, PubMed ID, etc.
- Filters:**
 - Density (g/cm³): <7
 - Tensile Strength (Mpa): 1000 to 2500
 - Melting Point (°C): >600
- Filter Behavior:** Filter by (selected), Exclude.
- Substance Class:** Alloy (60) (selected), Element (21), Manual Registration (11), Organic/Inorganic Small Molecule (9), Tabular Inorganic (7).
- Results:** 60 Results. The first result is highlighted: 187604-93-9.

Result 1: 187604-93-9

Component	Percent
Zr	66
Cu	16
Ni	12
Al	3.7
Ti	3.3

Al.Cu.Ni.Ti.Zr
Components: 5
Zirconium alloy, base, Zr 66,Cu 16,Ni 12, Al 3.7,Ti 3.3

378 References, 0 Reactions, 0 Suppliers

Result 2: 171527-15-4

Component	Percent
Cu	49
Ti	27
Zr	16
Ni	7.7

Cu.Ni.Ti.Zr
Components: 4
Copper alloy, base, Cu 49,Ti 27,Zr 16,Ni 7.7

133 References, 0 Reactions, 0 Suppliers

Result 3: 1027333-30-7

Component	Percent
Zr	51
Ti	42
Be	7

Be.Ti.Zr
Components: 3
Zirconium alloy, base, Zr 51,Ti 42,Be 7

4 References, 0 Reactions, 0 Suppliers

Result 4: 246520-47-8

Component	Percent
Zr	63
Cu	13
Ti	11
Ni	11
Be	3.4

Al.Cu.Ni.Ti.Zr
Components: 5
Zirconium alloy, base, Zr 63,Cu 13,Ti 11,Ni 11,Be 3.4

378 References, 0 Reactions, 0 Suppliers

Result 5: 152854-37-0

Component	Percent
Zr	63
Cu	13
Ti	11
Ni	9.8
Be	3.4

Al.Cu.Ni.Ti.Zr
Components: 5
Zirconium alloy, base, Zr 63,Cu 13,Ti 11,Ni 9.8,Be 3.4

133 References, 0 Reactions, 0 Suppliers

Result 6: 12725-40-5

Component	Percent
Fe	96-97
Cr	1.30-1.60
C	0.98-1.10
Mn	0.25-0.45
Si	0.15-0.35

Fe.Cr.C.Mn.Si
Components: 5
Iron alloy, base, Fe 96-97,Cr 1.30-1.60,C 0.98-1.10,Mn 0.25-0.45,Si 0.15-0.35

4 References, 0 Reactions, 0 Suppliers

Text Overlay: 在物质类别中，锁定合金 Alloy

材料详情页中的详细信息

CAS Registry Number: 187604-93-9

378

0

0

View in CAS BioFinder

合金的组分及含量

Component	Percent	CAS RN
Zr	66	7440-67
Cu	16	7440-50
Ni	12	7440-02
Al	3.7	7429-90
Ti	3.3	7440-32

Al.Cu.Ni.Ti.Zr

Components: 5

Unspecified

Zirconium alloy, base, Zr 66,Cu 16,Ni 12,Al 3.7,Ti 3.3 (9CI, ACI)

主要理化性质

Key Physical Properties	Value
Melting Point (Experimental)	858 °C
Density (Experimental)	6.730 g/cm³

Experimental Properties

Other Names and Identifiers

Experimental Properties

Additional Details

实验属性

Acoustic	Density	Electrical	Flow and Diffusion	Mechanical	Optical and Scattering	Structure Related	Thermal
Property		Value		Condition		Source	
Elongation at Break		0.5 % (approx) (tensile)		-		(1) CAS	
Tensile Strength		1800 MPa (tensile)		-		(2) CAS	
Tensile Strength		1758 MPa (tensile)		-		(3) CAS	
Tensile Strength		1533 MPa (tensile)		-		(3) CAS	
Tensile Strength		716 MPa (Ultimate)		-		(4) CAS	
Tensile Strength		600-1500 MPa (tensile)		-		(5) CAS	
Young's Modulus		97800 MPa (tensile)		-		(6) CAS	
Young's Modulus		96000 MPa (tensile)		-		(7) CAS	

Acoustic	Density	Electrical	Flow and Diffusion	Mechanical	Optical and Scattering	Structure Related	Thermal
Property		Value		Condition		Source	
Density		6.74 g/cm³		-		(1) CAS	
Density		6.73 g/cm³		-		(2) CAS	
Density		6.730 g/cm³		-		(3) CAS	
Density		6.607 g/cm³		-		(4) CAS	
Density		6.599 g/cm³		-		(4) CAS	
Density		6.57 g/cm³		-		(4) CAS	

Sources

(1) Gu, X.; Journal of Non-Crystalline Solids, (2003), 317(1,2), 112-117, CAplus

(2) Afonin, G. V.; Journal of Non-Crystalline Solids, (2017), 475, 48-52, CAplus

(3) Zhao, K.; Journal of Non-Crystalline Solids, (2018), 482, 243-245, CAplus

(4) Shen, Yiyu; Materials & Design, (2017), 117, 213-222, CAplus

参考已有结构的核磁数据信息

Search by Substance Name, CAS RN, Patent Number, PubMed ID, AN, CAN, and/or DOI.

Molecular Weight 220 to 280
Predicted values only. Examples: 46.07 | 125 to 350 | >350

AND pKa 1.3 to 1.8
Predicted values only. Examples: -1.77 | <9.25 | >2.4 | 5.25 to 10

AND Carbon-13 NMR 114 to 171, 96, 11.5
Allowance of ± 2 ppm. Examples: 152.3, 127.6, 133.1 | 155.02 to 207.59

+ Add Advanced Search Field

- 分子量：220至280之间
- pKa：1.3至1.8之间
- C谱特征峰：114至171之间，96，11.5

References Reactions Suppliers

Filter Behavior

Filter by Exclude

Search Within Results

Reaction Role

Reference Role

Preparation (13)

Synthetic Preparation (13)

Biological Study (12)

Uses (12)

Pharmacological Activity (11)

View All

Life Science Data

Pharmacological Data (13)

ADME (3)

Toxicity (1)

Commercial Availability

Number of Components

Molecular Weight

LogP

Stereochemistry

Element

Filtering: Life Science Data: 3 Selected X

13 Results

Sort: Relevance View: Partial

1 723-46-6
Nc1ccc(S(=O)(=O)Nc2ccoc2)cc1
C₁₀H₁₁N₃O₃S
Sulfamethoxazole
30K References 1,050 Reactions 110 Suppliers

2 296262-16-3
Cc1c2c(ncn2C(=O)O)c3ccccc13
C₁₀H₁₀N₂O₂S₂
2-[[5,6-Dimethylthieno[2,3-d]pyrimidin-4-yl]thio]acetic acid
5 References 42 Reactions 48 Suppliers

3 1927010-88-5
CC(C)Nc1cc(OC(=O)C)cc1Cl
C₁₁H₁₆ClNO₃
3-Chloro-4-[(1-methylpropyl)amino]-5-(2-propen-1-yloxy)-2(5H)-furanone
1 Reference 3 Reactions 0 Suppliers

4 157119-63-6
CCN1C(=O)N(CC)C(=O)C1c2cc[nH]2
C₁₂H₁₇N₃O₂
1,3-Dipropyl-1H-pyrrolo[3,2-d]pyrimidin e-2,4(3H,5H)-dione
1 Reference 1 Reaction 2 Suppliers

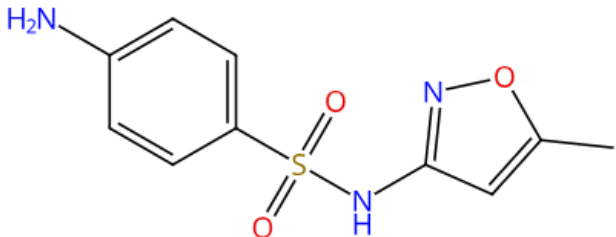
5 50995-74-9
CCN(CC)c1ccc2c(c1)oc(=O)c3ccccc23C(=O)O
C₁₄H₁₅NO₄
7-Diethylaminocoumarin-3-carboxylic acid
749 References 987 Reactions 84 Suppliers

6 1491130-55-2
CCN(CC)c1ccc(cc1)/C=N/c2ccccc2
C₁₇H₂₀N₂O
5-(Diethylamino)-2-[(E)-(phenylimino)methyl]phenol
Double bond geometry shown
5 References 8 Reactions 4 Suppliers

物质详情页中的表征信息

CAS Registry Number: 723-46-6

30K 1,050 110 View in CAS BioFinder



C₁₀H₁₁N₃O₃S
Benzenesulfonamide, 4-amino-*N*-(5-methyl-3-isoxazolyl)- (9CI, ACI)

Key Physical Properties	Value	Condition
Molecular Weight	253.28	-
Melting Point (Experimental)	167 °C	-
Boiling Point (Predicted)	482.145±55.00 °C	Press: 760.00 Torr
Density (Experimental)	1.08 g/cm ³	-
pKa (Predicted)	5.811±0.50	Most Acidic Temp: 25 °C

Experimental Properties | Spectra

Other Names and Identifiers

Experimental Properties

Experimental Spectra

Experimental Spectra

实验谱图

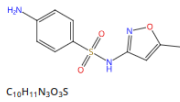
¹ H NMR	¹³ C NMR	Hetero NMR	IR	Mass	Raman	UV and Visible
View Carbon-13 NMR Spectrum (Image Available)						
View Carbon-13 NMR Spectrum (Image Available)						
View Carbon-13 NMR Spectrum (Image Available)						
View Carbon-13 NMR Spectrum (Image Available)						
View Carbon-13 NMR Spectrum (Image Available)						
View Carbon-13 NMR Spectrum						
View Carbon-13 NMR Spectrum						
Carbon-13 NMR Spectrum - 1 Source						

Solvent	Source
DMSO- <i>d</i> ₆	(1) WSS
DMSO- <i>d</i> ₆	(2) WSS
-	(2) WSS
-	(3) BIORAD
DMSO- <i>d</i> ₆	(4) AIST
DMSO- <i>d</i> ₆	(5) CAS
Methanol- <i>d</i> ₄	(6) CAS
-	(7) CAS

Sources

- (1) Kartashov, V. S.; Khimiko-Farmatsevtiche
- (2) Fruttero, Roberta; Journal of the Chemica
- (3) Copyright Bio-Rad Laboratories. All Right
- (4) "Integrated Spectral Data Base System of
- (5) Sunduru, Naresh; European Journal of M
- (6) Ham, Won Seok; Angewandte Chemie, In
- (7) Blasoli, Sonia; Journal of Colloid and Inte

723-46-6

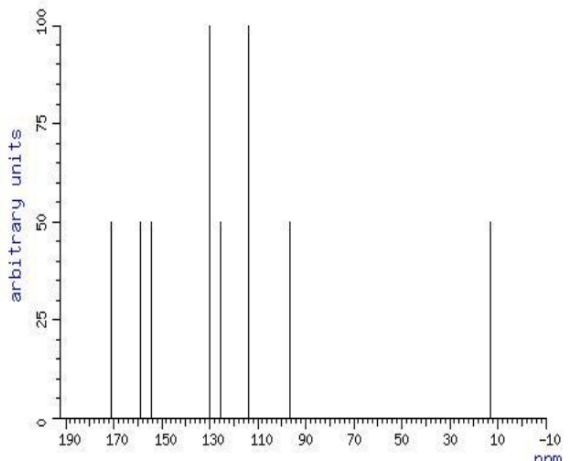


C₁₀H₁₁N₃O₃S

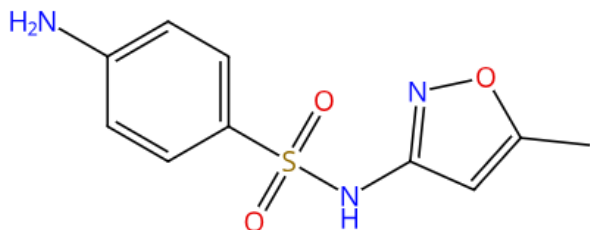
CAS Name
Sulfamethoxazole

Conditions
Solvent
DMSO-*d*₆ (2206-27-1)
Temperature
30 °C

Spectrum Summary
Spectrum ID
CC-03-C_SPC-17694
Spectrometer
BRUKER WH-90
Source
Spectral data were obtained from John Wiley & Sons, Inc.



物质的生命科学数据



C₁₀H₁₁N₃O₃S

Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI, ACI)

Key Physical Properties	Value	Condition
Molecular Weight	253.28	-
Melting Point (Experimental)	167 °C	-
Boiling Point (Predicted)	482.145±55.00 °C	Press: 760.00 Torr
Density (Experimental)	1.08 g/cm³	-
pKa (Predicted)	5.811±0.50	Most Acidic Temp: 25 °C

[Experimental Properties](#) | [Spectra](#)

Other Names and Identifiers

Experimental Properties

Experimental Spectra

Pharmacological Data

ADME

Toxicity

Pharmacological Data

药理数据

Knowledge Graph

Target	Function	Parameter	Value	Disease	Organism	Assay	Source
Yersinia enterocolitica	-	MBC50	304 mg/mL	bacterial infectious disease	Yersinia enterocolitica	View Detail	(1) CAS
Yersinia enterocolitica	-	MBC90	1216 mg/mL	bacterial infectious disease	Yersinia enterocolitica	View Detail	(1) CAS
Yersinia enterocolitica	-	MIC50	38 mg/L	bacterial infectious disease	Yersinia enterocolitica	View Detail	(1) CAS

ADME

代谢数据

Target	Function	Parameter	Value	Disease	Organism	Assay	Source
-	Inhibitor	Absorption	Rapid	-	-	View Detail	(1)
-	-	AUC	796.3 µg.hr/mL	-	-	View Detail	(2) CAS
-	-	AUC	930.2 µg.hr/mL	-	-	View Detail	(2) CAS
-	Inhibitor	AUC	342.6 - 796.3 µg.hr/mL	-	-	View Detail	(2) CAS
-	Inhibitor	AUC	273 - 930.2 µg.hr/mL	-	-	View Detail	(2) CAS

Toxicity

毒性数据

Target	Function	Parameter	Value	Disease	Organism	Assay	Source
C8166 cell line	-	TD50	> 240 µg/mL	-	Homo sapiens	View Detail	(1)
Dihydropteroate synthase	-	Acute toxicity	3.61 mol/L	bacterial infectious disease	DHPS	View Detail	(2) CAS
Dihydropteroate synthase	-	Chronic toxicity	5.03 mol/L	bacterial infectious disease	DHPS	View Detail	(2) CAS
Vero cell line	-	TD50	4.25 × 10 ³ µg/mL	-	Macaca mulatta	View Detail	(1)
-	-	IC25	1 × 10 ³ mg/L	-	-	View Detail	(3)
-	-	IC25	1 × 10 ³ mg/L	-	-	View Detail	(3)
-	-	IC50	200 mg/L	-	-	View Detail	(3)

拓展关注结构的其他应用研究

723-46-6
NC1=CC=C(S(=O)(=O)NC2=CC=CC=C2)C=C1
C₁₀H₁₁N₃O₃S
Sulfamethoxazole

30K References | 1,050 Reactions | 110 Suppliers

References for 723-46-6

Substances | Reactions | Citing | Knowledge Graph

Filter Behavior: Filter by | Exclude

Search Within Results

Document Type

Substance Role

- ☐ Biological Study (14K)
- ☒ Uses (8,615)
- ☐ Occurrence (8,526)
- ☐ Process (6,767)
- ☐ Analytical Study (4,058)

View All

Filtering: Substance Role: Uses X

8,615 Results

1

Toxic and genotoxic evaluation
By: Isidori, Marina; Lavorgna, Margherita
Science of the Total Environment (2005)
The ecotoxicity of the following six anti Sulfamethoxazole, Ofloxacin, Lincomycin microcrustaceans and fish to assess acute genotoxic potential of the investigated compounds using the available data from the literature.
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Full Text

2

Evaluating the biodegradability of sulfamethazine, sulfamethoxazole, and trimethoprim at different stages of sewage treatment
By: Perez, Sandra; Eichhorn, Peter; Aga, Diana S.
Environmental Toxicology and Chemistry (2005), 24(6), 1361-1367 | Language: English
Aerobic biodegradability of 4 antimicrobials (sulfamethazine, sulfamethoxazole, sulfamethoxazole, trimethoprim) of a municipal wastewater treatment facility. Biodegradability tests were performed by spiking wastewater with 20 µg/L of each compound. Concentration profiles of assay were monitored using liquid chromatography/electrospray ionization/mass spectrometry. Substantial differences were observed between the biodegradability of the compounds.
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Substance Role

By Count | Alphanumeric

1 Selected

- ☐ Biological Study (14K)
- ☒ Uses (8,615)
- ☐ Occurrence (8,526)
- ☐ Pollutant (8,454)
- ☐ Therapeutic Use (7,229)
- ☐ Process (6,766)
- ☐ Removal or Disposal (5,723)
- ☐ Biological Study, Unclassified (4,815)
- ☐ Pharmacological Activity (4,130)
- ☐ Analytical Study (4,058)
- ☐ Analyte (3,864)
- ☐ Physical, Engineering, or Chemical Process (3,359)
- ☐ Adverse Effect (1,134)

Formulation Purpose

Top Count | Alphanumeric | Search

0 Selected

<input type="checkbox"/> Antibacterial agents (77)	<input type="checkbox"/> Antifibrotic agents (2)	<input type="checkbox"/> Antiobesity agents (1)
<input type="checkbox"/> Antimicrobial agents (47)	<input type="checkbox"/> Anti-HIV agents (2)	<input type="checkbox"/> Antirheumatic agents (1)
<input type="checkbox"/> Drug delivery systems (47)	<input type="checkbox"/> Antihypertensives (2)	<input type="checkbox"/> Antitumor antibiotics (1)
<input type="checkbox"/> Drugs (32)	<input type="checkbox"/> Antimalarials (2)	<input type="checkbox"/> Antiviral vaccines (1)
<input type="checkbox"/> Antitumor agents (30)	<input type="checkbox"/> Antiparkinsonian agents (2)	<input type="checkbox"/> Calcium channel blockers (1)
<input type="checkbox"/> Anti-inflammatory agents (29)	<input type="checkbox"/> Antipsoriatic agents (2)	<input type="checkbox"/> Cardiovascular agents (1)
<input type="checkbox"/> Antibiotics (24)	<input type="checkbox"/> Antipsychotics (2)	<input type="checkbox"/> Carriers (1)
<input type="checkbox"/> Pharmaceutical formulations (21)	<input type="checkbox"/> Controlled-release drug delivery systems (2)	<input type="checkbox"/> Central nervous system agents (1)
<input type="checkbox"/> Antiviral agents (17)	<input type="checkbox"/> Hair growth stimulants (2)	<input type="checkbox"/> Coating materials (1)
<input type="checkbox"/> Anti-infective agents (15)	<input type="checkbox"/> Immunomodulators (2)	<input type="checkbox"/> Controlled-release floating drug delivery systems (1)
<input type="checkbox"/> Fungicides (15)	<input type="checkbox"/> Immunostimulants (2)	<input type="checkbox"/> Coolants (1)
<input type="checkbox"/> Ophthalmic agents (15)	<input type="checkbox"/> Nanoparticles (2)	<input type="checkbox"/> Cosmetics and Personal care products (1)
<input type="checkbox"/> Dermatological agents (13)	<input type="checkbox"/> Pharmaceutical immune agents (2)	<input type="checkbox"/> Disinfectants (1)
<input type="checkbox"/> Analgesics (8)	<input type="checkbox"/> Pharmaceutical tablets (2)	<input type="checkbox"/> Enzyme inhibitors (1)
<input type="checkbox"/> Allergy inhibitors (7)	<input type="checkbox"/> Stabilizing agents (2)	<input type="checkbox"/> Feed (1)
<input type="checkbox"/> Gastrointestinal agents (6)	<input type="checkbox"/> Toothpastes (2)	<input type="checkbox"/> Food (1)
<input type="checkbox"/> Wound healing promoters (6)		

Substances (6) | Reactions (0) | Citing (244) | Citation Map

查阅知名学者的研究

The screenshot shows the CAS database search interface. The 'References' tab is selected. A search bar contains 'Author Name' and 'Ding, J'. A yellow box highlights the search bar and a yellow arrow points to the search results. Below the search bar, there is a section for 'Author' with a search bar and a list of authors. The list includes 'Ding, J (257)' and 'Ding, J. (813)' among others. A yellow box highlights the 'Author' section and a yellow arrow points to the search results.

The screenshot shows the search results for 'Ding, J'. The 'References' tab is selected. The search bar contains 'Author Name' and 'Ding, J'. The results are filtered by 'Author: 3 Selected'. The results list includes 'A kind of durable and easily degradable type colored woven cloth' and 'Manufacturing process of deep-light color interphase yarn-dyed fabric'. A yellow box highlights the 'Author' section and a yellow arrow points to the search results.

先全面检索，再筛选精炼

查阅知名学者的研究

Organization

Top CountAlphanumericSearch

102 Selected

☒ Chinese Academy of Sciences (345)

☒ Shanghai Institute of Materia Medica, Chinese Academy of Sciences (263)

☐ National University of Singapore (207)

☐ Hebei University of Technology (96)

☐ Jiangnan University (61)

☐ China ENFI Engineering Corporation (58)

☐ Northeast Agricultural University (50)

☐ [NAME NOT TRANSLATED] (47)

☐ Shanghai Jiaotong University (39)

☐ Hebei University of Technology (37)

☐ Inner Mon Energy Co

☐ Ningbo Ur

☐ Dalian Mir

☐ Hohai Un

☐ Jiangsu Un

☐ Nanyang H Co., Ltd. (1)

☐ The Secon and Yuying of Wenzho University

☐ Institute o Engineerin of Science

☐ Institute o Engineerin of Science

☐ Jilin Univer

OKCancel

Organization

Top CountAlphanumericSearch

Organization Name

Shanghai Institute of Materia Medica

Search

231 Selected

☒ 1Division of Anti-Tumor Pharmacology, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, 501 Haik Road, Shanghai, 201203 China. (1)

☒ 2Division of Anti-tumor Pharmacology, State Key Laboratory of Drug Research, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Shanghai, China. (1)

☒ Authors' Affiliations: Division of Antitumor Pharmacology and Division of Medicinal Chemistry, State Key Laboratory of Drug Research, Shanghai Institute of Materia Medica, Chinese Academy of

☒ Division of Anti-tumor Pharmacology, Institute of Materia Medica, Graduate School of the Chinese Academy of Sciences, Zhangjiang, Pu Dong, Shanghai, PR China. (1)

☒ Division of Anti-tumor Pharmacology, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, 501 Haik Road, Shanghai, 201203, China. (1)

☒ Division of Anti-tumor Pharmacology, Shanghai Institute of Materia Medica, Chinese Academy of

☒ Division of Anti-tumor Pharmacology, State Key Laboratory of Drug Research, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, 555 Zu Chong Zhi Road, Zhangjiang Hi-Tech Park, Shanghai 201203, Peoples' Republic of China. (1)

☒ Division of Anti-Tumor Pharmacology, State Key Laboratory of Drug Research, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, 555 Zu Chong Zhi Road, Zhangjiang Hi-Tech Park, Shanghai 201203, P.R. China. (1)

☒ Division of Antitumor

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根据发文机构筛选以避免重名

查阅知名学者在某特定方向的研究

检索结果的二次筛选
示例：生物标志物

References search for "Ding, J" Author Name

Substances Reactions Citing Knowledge Graph

Filter Behavior

Filter by Exclude

Search Within Results

Search for up to 3 text strings within the result set.

Enter a query...

Search

Searching for... Clear All

biomarker

Filtering: Search Within Results: biomarker X Author: 3 Selected X Organization: 231 Selected X Clear All Filters

27 Results Sort: Relevance View: Partial Abstract

1

SYK-mediated epithelial cell state is associated with response to c-Met inhibitors in c-Met-overexpressing lung cancer

By: Zhou, Ji; Zhang, Xu-Chao; Xue, Shan; Dai, Mengdi; Wang, Yueliang; Peng, Xia; Chen, Jianjiao; Wang, Xinyi; Shen, Yanyan; Qin, Hui; et al

Signal Transduction and Targeted Therapy (2023), 8(1), 185 | Language: English, Database: CAPLUS and MEDLINE

Genomic MET amplification and exon 14 skipping are currently clin. recognized biomarkers for stratifying subsets of non-small cell lung cancer (NSCLC) patients according to the predicted response to c-Met inhibitors (c-Metis), yet the overall clin. benefit of this strategy is quite limited. Notably, c-Met protein overexpression, which occurs in approx. 20-25% of NSCLC patients, has not yet been clearly defined as a clin. useful biomarker. An optimized strategy for accurately classifying patients with c-Met overexpression for decision-making regarding c-Met treatment is lacking. Herein, we fou...

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Substances (5) Reactions (0) Citing (3) Citation Map

2

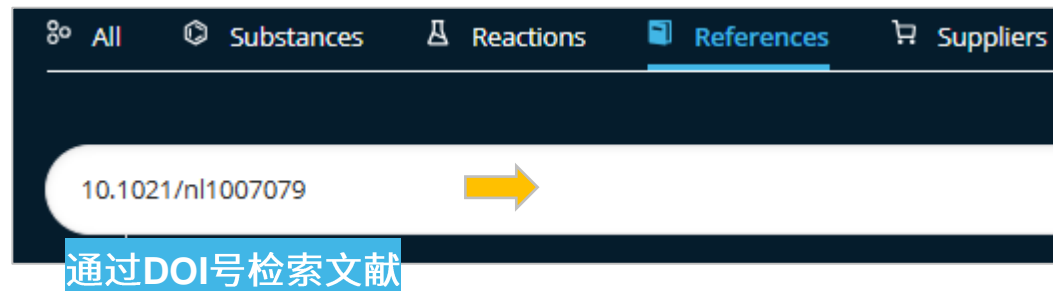
Intact regulation of G1/S transition renders esophageal squamous cell carcinoma sensitive to PI3Ka inhibitors

By: Zhang, Xu; Wang, Yuxiang; Zhang, Xi; Shen, Yanyan; Yang, Kang; Ma, Qingyang; Qiao, Yuemei; Shi, Jiajie; Wang, Yi; Xu, Lan; et al

Signal Transduction and Targeted Therapy (2023), 8(1), 153 | Language: English, Database: CAPLUS and MEDLINE

Phosphatidylinositol 3-kinase alpha (PI3Ka) inhibitors are currently evaluated for the therapy of esophageal squamous cell carcinoma (ESCC). It is of great importance to identify potential biomarkers to predict or monitor the efficacy of PI3Ka inhibitors in

查看导师/审稿人推荐的研究工作



References search for "10.1021/nl1007079"

Substances Reactions Citing Knowledge Graph

Filter Behavior

Filter by Exclude

Search Within Results

Document Type

Language

Publication Year

Author

Organization

Publication Name

Concept

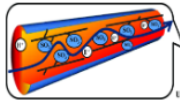
1 Result

View: Partial Abstract

1

Aligned Electrospun Nanofiber Composite Membranes for Fuel Cell Electrolytes

By: Tamura, Takuya; Kawakami, Hiroyoshi
Nano Letters (2010), 10(4), 1324-1328 | Language: English, Database: CAsplus and MEDLINE

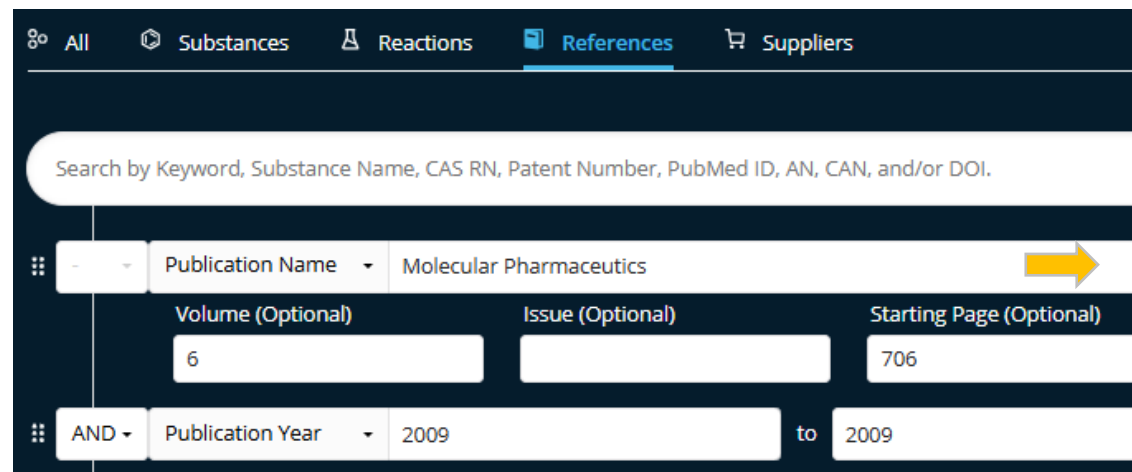


We have synthesized novel composite membranes composed of sulfonated polyimide nanofibers and sulfonated polyimide for proton exchange membrane fuel cell. It was clear that the polyimides within nanofiber were significantly oriented or aggregated when electrospun; as a result, the membrane stability, such as oxidative and hydrolytic stabilities, of the composite membrane was significantly improved with an increase in nanofiber, and oxygen permeability of the composite membrane decreased when compared to that determined in the membrane without nanofibers. In addition, the proton conductivity of...

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Full Text

Substances (2) Reactions (0) Citing (223) Citation Map



References search for 2 Advanced Fields

Substances Reactions Citing Knowledge Graph

Filter Behavior

Filter by Exclude

Search Within Results

Document Type

Language

Publication Year

Author

Organization

Publication Name

Concept

CA Section

1 Result

View: Partial Abstract

1

Controlling HBV Replication in Vivo by Intravenous Administration of Triggered PEGylated siRNA-Nanoparticles

By: Carmona, Sergio; Keller, Michael; Jorgensen, Michael R.; Koll, Soumia; Crowther, Carol; Salazar, Felix H.; Marion, Patricia L.; Fujino, Masato; Natori, Yukikazu; Thanou, Maya; et al
Molecular Pharmaceutics (2009), 6(3), 706-717 | Language: English, Database: CAsplus and MEDLINE



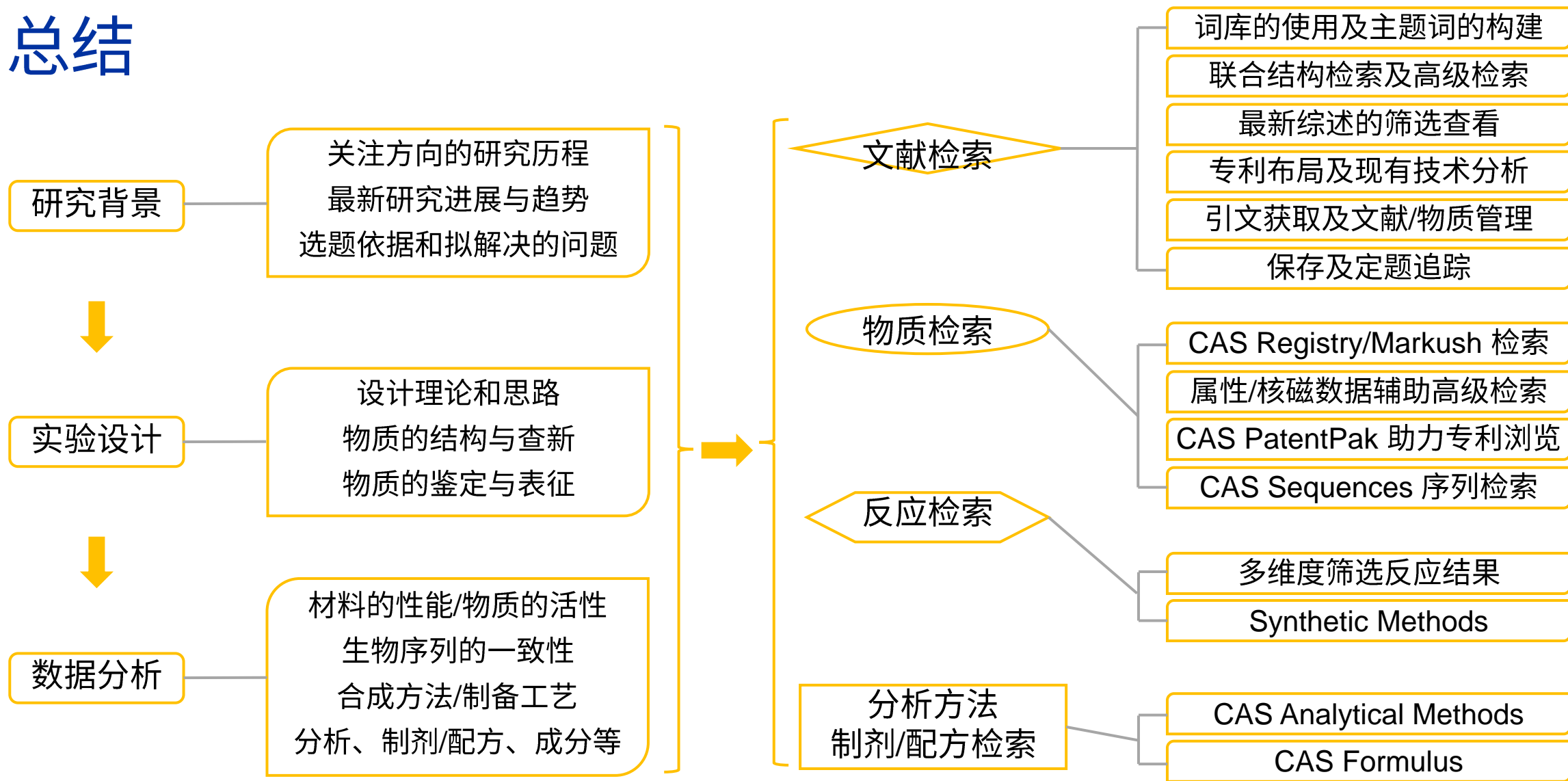
Harnessing RNA Interference (RNAi) to inhibit hepatitis B virus (HBV) gene expression has promising application to therapy. Here we describe a new hepatotropic nontoxic lipid-based vector system that is used to deliver chem. unmodified small interfering RNA (siRNA) sequences to the liver. Anti HBV formulations were generated by condensation of siRNA (A component) with cationic liposomes (B component) to form AB core particles. These core particles incorporate an aminoxy cholesterol lipid for convenient surface postcoupling of polyethylene glycol (PEG; C component, stealth/biocompatibility poly...

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Full Text

Substances (21) Reactions (14) Citing (113) Citation Map

总结



Between problems
and progress **are**
connections that
matter

are connections
that matter

谢谢!

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