

SCIFINDER

Using SCiFinder

Learning Objectives

1. EMU Library web page.
2. Following the links to SciFinder.
3. How to register SCIFINDER web page.
4. Completing registration to SciFinder.
5. Login to SciFinder and make a search, save your search, check your history and get to understand the user interface and environment.

Overview

- This chapter covers:
 - The SciFinder online database
 - Using Library web page to connect SciFinder Web page
 - How to register yourself as a user
 - Using your User Name and Password
 - Practice on search subjects via SciFinder.

SCIFINDER

- Write the address to a browser to connect emu library site library.emu.edu.tr
- You will have the following page.

Evrak Sevki Bilgileri Facebook Mail - Mustafa T. Babagil EMU-Portal EASTERN MEDITERRANEAN UNIVERSITY

library.emu.edu.tr

ÖZAY Oral KÜTÜPHANESİ LIBRARY Türkçe English

SUMMON: SEARCH ALL RESOURCES
Search electronic resources (e-journal articles, e-books, etc.)
Search Advanced Search

ABOUT THE LIBRARY
Mission and Vision Statement
Policies
Library Hours
Collection and Location
Staff
Library Rules
History
Suggestion Box
Recommend a Book!

LIBRARY SERVICES
Services
Interlibrary Loan (ILL)
European Information Centre
Institutional Memberships
Announcements & News

HELP & GUIDANCE
Library User Training Courses
Reference Desk
Library Handbook
Virtual Tour

ELECTRONIC RESOURCES
Online Full Text Databases (Subscribed)
Online Bibliographic Databases (Subscribed)
EMU Institutional Repository (EMU I-REP)
Databases on Trial
Free E-Resources
Digital Copyright Information

CATALOGS & RESEARCH TOOLS
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Catalog Search (Search print resources)
E-Journals List (A to Z)
E-Books List
New Arrivals
Print Journals
Cyprus Newspapers Archives
Other Libraries
Library Borrower Account
Remote Access (Off-Campus Access)

ANNOUNCEMENTS

- Turnitin and iThenticate (Plagiarism Detection Systems)
- EMU Library Online Databases User Training Programs!
- Register And Become a Library Member!
- Springer **E-BOOKS** are now available for EMU Community.

DATABASES ON TRIAL

- The **Global e-Journals Library Database** is available on a trial base until 30 October 2016.
- **LEXPERA – Yeni Nesil Hukuk Bilgi Sistemi Database** is available on a trial base until 01 September 2016.

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- Then on the left side of this web page ELECTRONIC RESOURCES list is available. You should click on **Online Bibliographic Databases (subscribed)** option to find out related online databases.

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Mission and Vision Statement
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Library Hours
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Catalog Search (*Search print resources*)
E-Journals List (A to Z)
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New Arrivals
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click on Online
Bibliographic Databases
(subscribed) option

SCIFINDER

- Then You will be directed to a page about copyrights which you should definitely accept, and continue.

Mission and Vision Policies Library Hours Collection and Location Staff Rules History
Suggestion Box Recommend a Book Services Interlibrary Loan (ILL)

Eur. Information Centre Institutional Memberships Announcements
Training Courses Reference Desk Library Handbook Virtual Tour Homepage

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Eastern Mediterranean University

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I ACCEPT, CONTINUE

I ACCEPT, CONTINUE

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- In the following page you should click on the info column of the list about resource. Resource names are listed blue and info column is yellow!



Mission and Vision Policies Library Hours Collection and Location Staff Rules History
Suggestion Box Recommend a Book Services Interlibrary Loan (ILL)

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Online Bibliographic Databases

Resource Title	Info
Turnitin: Plagiarism Detection System	i
iThenticate: Professional Plagiarism Prevention	i
ISI Web of Science	i
Elsevier Scopus	i
SciFinder	i
MathScienceNet	i
Humanities & Social Sciences Index Retrospective: 1907-1984 (H.W. Wilson)	i
Education Index Retrospective: 1929-1983 (H.W. Wilson)	i
Applied Science & Business Periodicals Retrospective Retro Index (1913-1983)	i
ERIC®	i
MEDLINE®	i
Ulrich's Periodicals Directory	i
The Philosopher's Index	i
Library, Information Science & Technology Abstracts (LISTA)	i

You should click on the info

SCIFINDER

- After you have the related documentation and links as shown in the picture, you should click on registration page link so that necessary information form will be available.

SciFinder®

[SciFinder](#)

[Registration Page](#)

[Back to Top](#)

SciFinder: The choice for Chemistry research

SciFinder is a product of Chemical Abstracts Service (CAS.). SciFinder is a research discovery application that provides integrated access to the world's most comprehensive and authoritative source of references, substances and reactions in chemistry and related sciences. SciFinder® is a research discovery application that provides unlimited access to the world's most comprehensive and authoritative source of references, substances and reactions in chemistry and related sciences.

SciFinder offers a one-stop shop experience with flexible search and discover options based on user input and workflow. You can search for substances, reactions, and patent and journal references anytime, anywhere.

- ✓ Make better, more confident decisions knowing that you have access to the largest collection of substances, reactions, and patent and journal references produced, compiled, and updated daily by CAS scientists around the world.
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Click for more details, introductory video, overview presentation and training materials: <http://www.cas.org/products/scifinder>

* **Registration:** Users must register first, to use SciFinder. To do so, check the Registration Guide and simply follow the steps below:

[Registration Guide](#) (How to register to use SciFinder). ([Kavıt Kılavuzu](#), [Türkçe](#))

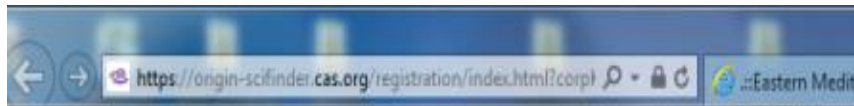
- Go to the [REGISTRATION PAGE](#) and fill the web-based registration form to request your own username and password for registering to the SciFinder. (Use only your EMU e-mail address for registration)
- CAS (Chemical Abstracts Service) will send you a confirmation e-mail with instructions for completing the registration process. (To receive this confirmation e-mail, you must have an official EMU e-mail address.)
- After successfully receiving the confirmation e-mail, you have to click the link within the e-mail to complete registration process.

MathSciNet is a comprehensive database

You should click on the
[Registration Page](#)

SCIFINDER

- You will have a page to click **Next >>**



Welcome to User Registration for SciFinder®

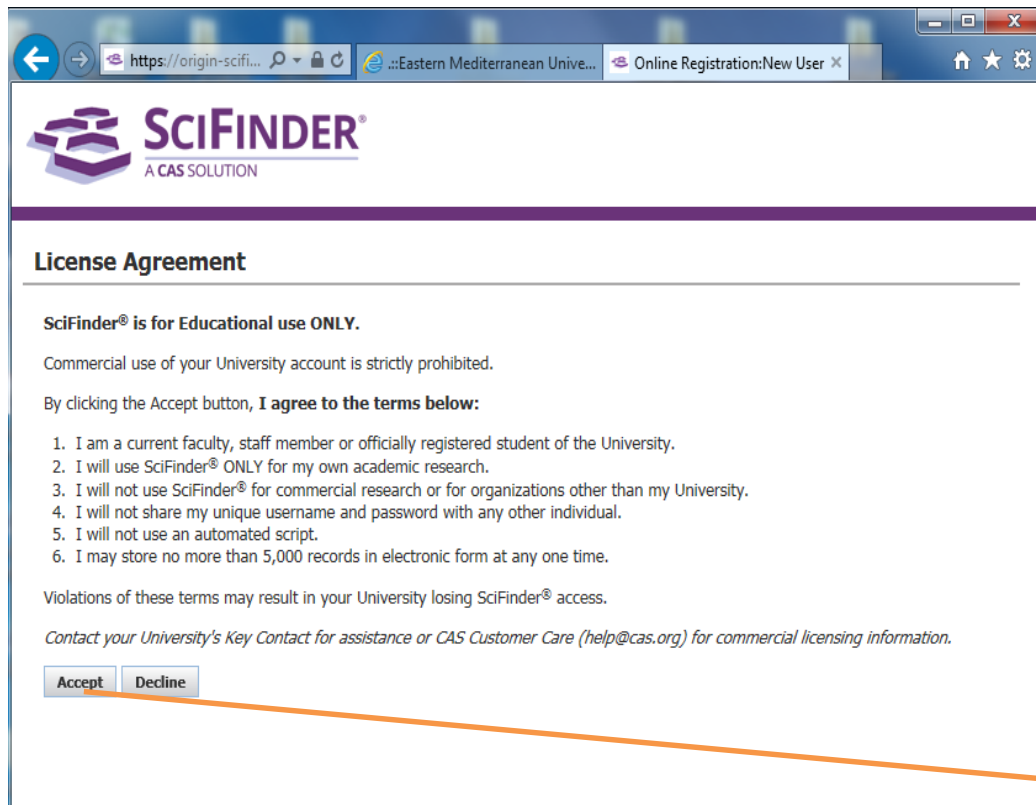
Click Next to begin registration as a new user.

Next >>

You should click on the
Next >> button.

SCIFINDER

- License Agreement page. Either you should **Accept** and continue or Decline to exit.
- You should click on **Accept** button to continue with registration.



**You should click on the
Accept button.**

SCIFINDER

- You should fill the Form. Be careful on apteryx (*) fields where compulsory to be filled.

Registration Information

Please provide the following information:
(bold* = required)

Contact Information

First Name*:

Last Name*:

Email*:

Confirm Email*:

Phone Number:

Fax Number:

Area of Research:

Job Title:

Username and Password

Username*: [Tips](#)

Password*:

Re-enter Password*:

Security Information

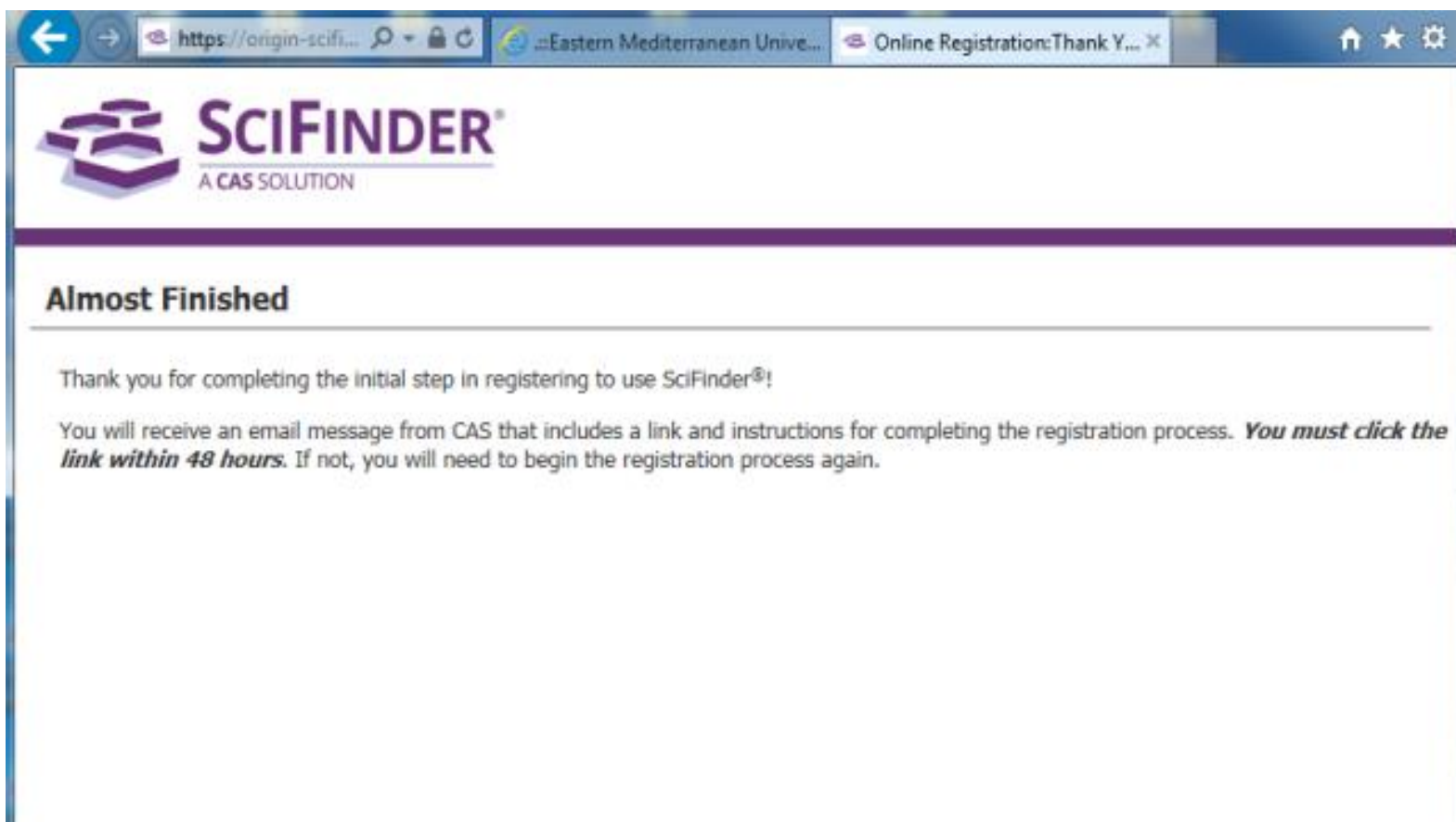
Security Question*:

Answer*: [Why?](#)

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SCIFINDER

- Then, after you click on the button Register you should have the following page. **Keep in your mind that an e-mail is sent to your e-mail address and waiting your click on it within 48 hours!**



SCIFINDER

- You will receive an e-mail as shown in the preview. Click on the link given in the e-mail to complete registration process.

The screenshot shows an email client interface. On the left is a sidebar with folders: Folders, Favourites, Mustafa T. Babagil, and Inbox (3). The main area shows the 'Inbox' with a list of emails. The selected email is from 'registration@cas.org' with the subject 'SciFinder Registration - Your Confirmation Required' and a timestamp of 12:32. The email content is displayed on the right, showing the sender's name, a privacy notice, and the main message: 'Dear Mbabagilt, To complete your SciFinder registration, you must click the link provided below.' followed by a URL: <https://scifinder.cas.org/registration/completeRegistration.html?respKey=D94D0D12X86F3503FX1E2DCFF64A9530BAC1>. The message concludes with 'This link is valid for only one use and will expire within 48 hours.' and 'If you need assistance at any time, consult the key contact at your organization.'

Science finder page will inform you the license agreement to confirm. Then you can begin to search about your research topics and fields.



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Introduction to preliminary search by SciFinder



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Explore Research Topic **Example: Acetylcholinesterase Inhibitors**



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REFERENCES

- Research Topic
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- Document Identifier
- Journal
- Patent
- Tags

SUBSTANCES

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

REFERENCES: RESEARCH TOPIC ?

Acetylcholinesterase inhibitors

Examples:

The effect of antibiotic residues on dairy products

Photocyanation of aromatic compounds

Search

Advanced Search



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SciPlanner

Research Topic "Acetylcholinesterase inhibitor..."

REFERENCES ?

Select All Deselect All

1 of 2 Research Topic Candidates Selected

- 5319 references were found containing "**Acetylcholinesterase inhibitors**" as entered.
- 24921 references were found containing the concept "**Acetylcholinesterase inhibitors**".



Get References



Tip: by this option you can save the search results.

Explore ▾ Saved Searches ▾ SciPlanner

Research Topic "Acetylcholinesterase inhibitor..." > references (5319)

REFERENCES ⓘ

Get Substances Get Reactions Get Related Citations View Only CHEMZENT Tools ▾

Create Keep Me Posted Alert Send to SciPlanner

Analyze Refine Categorize

Sort by: Accession Number ▾

1 of 5319 References Selected

Page: 1 of 266

Analyze by: Author Name

Kuca Kamil	43
Foroumadi Alireza	32
Shafiee Abbas	31
Bartolini Manuela	30
Sugimoto Hachiro	29
Andrisano Vincenza	28
Carlier Paul R	27
Malawska Barbara	27
Nadri Hamid	24
Bajda Marek	23

- 1. Screening of acetylcholinesterase inhibitors in herbal medicines**
Quick View Other Sources
By Chung, Hwan-Suck; Choi, Yeon Jung; Bang, Ji Hyun; Jung, Heejae; Bae, Hyunsu
From Oriental Pharmacy and Experimental Medicine (2015), 15(2), 147-152. | Language: English, Database: CAPLUS
The pathogenesis of Alzheimer's disease (AD) has been linked to a deficiency in the brain neurotransmitter acetylcholine. Subsequently, **acetylcholinesterase (AChE) inhibitors** were used for the treatment of mild to moderate AD. The goal of this study was det. the candidate therapeutic herbal medicines on AD through AChE inhibition. In the present study, the AChE inhibitory effects of 255 herbal medicines were evaluated using an AChE assay. 14 herbal medicines increased the AChE activity but 8 herbal medicines inhibited the AChE activity more than 50 %. When we analyzed the AChE activity of ...
- 2. The combination of memantine and galantamine improves cognition in rats: The synergistic role of the α7 nicotinic acetylcholine and NMDA receptors**
Quick View Other Sources
By Nikiforuk, Agnieszka; Potasiewicz, Agnieszka; Kos, Tomasz; Popik, Piotr
From Behavioural Brain Research (2016), 313, 214-218. | Language: English, Database: CAPLUS
The combination of memantine and **acetylcholinesterase inhibitors (AChEIs)** is used as a therapeutic strategy to improve cognition in Alzheimer's disease. Among AChEIs, galantamine, which is also a pos. allosteric modulator (PAM) of nicotinic acetylcholine receptors (nAChRs), including α7-nAChRs, may be particularly beneficial. The α7-nAChR is involved in interactions between the cholinergic and glutamatergic systems. In the present study, we investigated the potential role of α7-nAChRs in the pro-cognitive effects of this drug combination. To this aim, cognitive performance in rats was asse...
- 3. Synthesis and evaluation of novel 1,2,3-triazole-based acetylcholinesterase inhibitors with neuroprotective activity**
Quick View Other Sources
By Li, Jia-Cheng; Zhang, Juan; Rodrigues, Mosar Correa; Ding, De-Jun; Longo, Joao Paulo Figueiro; Azevedo, Ricardo Bentes; Muehlmann, Luis Alexandre; Jiang, Cheng-Shi
From Bioorganic & Medicinal Chemistry Letters (2016), Ahead of Print. | Language: English, Database: CAPLUS
A series of new 1,2,3-triazole derivs. were synthesized and evaluated for anticholinesterase and neuroprotective activities. Some synthetic derivs. can comed 22 exhibited

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Research Topic "Acetylcholinesterase inhibitor..." > references (5319) > Screening of acetylcholinester...

[REFERENCE DETAIL](#) ⓘ[Get Related Citations](#)[Link to Other Sources](#)[Send to SciPlanner](#)[Return](#)[Previous](#) | [Next](#)

1. Screening of acetylcholinesterase inhibitors in herbal medicines

By: Chung, Hwan-Suck; Choi, Yeon Jung; Bang, Ji Hyun; Jung, Heejae; Bae, Hyunsu

The pathogenesis of Alzheimer's disease (AD) has been linked to a deficiency in the brain neurotransmitter acetylcholine. Subsequently, acetylcholinesterase (AChE) inhibitors were used for the treatment of mild to moderate AD. The goal of this study was det. the candidate therapeutic herbal medicines on AD through AChE inhibition. In the present study, the AChE inhibitory effects of 255 herbal medicines were evaluated using an AChE assay. 14 herbal medicines increased the AChE activity but 8 herbal medicines inhibited the AChE activity more than 50%. When we analyzed the AChE activity of each herbal medicine on the based of therapeutic category on Herbalogy, the category of collecting dispersed essence energy had the highest no. of herbal medicines (2 out of 9) among of 8 herbal exts. which have AChE inhibition activities. However, the category of warming inside had the highest no. of herbal medicines among of 14 herbal exts. which have AChE increasing activities (2 out of 7). When we compared our results with other researchers' results, the correlation was significantly high ($p = 0.0003$). Our results provide the potential drug candidates for further studies by unbiased screening.

Indexing

Pharmacology (Section1)

Citations

- Anon; Chopra K, Misra S, Kuhad A (2011) Neurobiological aspects of Alzheimer's disease Expert Opin Ther Targets 15:535-555
Committee KMTC; Herbalogy 2004
Cui, Y; Zhong Yao Cai 2004, 27, 589
Cui, Y; Zhongguo Zhong Yao Za Zhi 2002, 27, 404
Dalai, M; Orient Pharm Exp Med, 10.1007/s13596-013-0141-3 2014, 14, 31
DeKosky, S; Neurodegeneration, 10.1006/neur.1996.0056 1996, 5, 417
Forman, M; Nat Med, 10.1038/nm1113 2004, 10, 1055

QUICK LINKS

0 Tags, 0 Comments

SOURCE

Oriental Pharmacy and Experimental Medicine
Volume15
Issue2
Pages147-152
Journal; Online Computer File
2015
CODEN:OPEMAB
ISSN:2211-1069
DOI:10.1007/s13596-014-0177-z

COMPANY/ORGANIZATION

Department of Physiology,
College of Korean Medicine
Kyung Hee University
Seoul, S. Korea 130-701

ACCESSION NUMBER



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Explore Chemical Structure Example: Rivastigmine as an AChE Inhibitor



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Research Topic "acetylcholinesterase inhibitor..." > references (5319)

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Research Topic

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SUBSTANCES

Chemical Structure

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REACTIONS

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Research Topic "acetylcholinesterase inhibitor..." > references (5319)

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Research Topic
Author Name
Company Name
Document Identifier
Journal
Patent
Tags

SUBSTANCES

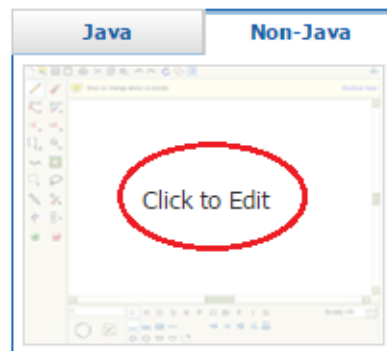
Chemical Structure
Markush
Molecular Formula
Property
Substance Identifier

REACTIONS

Reaction Structure

SUBSTANCES: CHEMICAL STRUCTURE ?

Structure Editor:



Import CXF

Search

Advanced Search

Search Type:

- Exact Structure
- Substructure
- Similarity

Show precision analysis

Tip: It can be possible to import chemical structures from ChemDraw.



Launch a SciFinder substance or reaction search directly from ChemBioDraw
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Import Save

Structure Editor

Draw or change atoms or bonds. Shortcut Keys

Atom Short

-X =R

1-4 Cl

+

-

CCN(C)C(=O)Oc1ccc(cc1)C(C)N(C)

Drawing Editor:

- Structure
- Reaction
- Markush

Get substances that match your query using:

- Exact search
- Substructure search
- Similarity search

OK

Cancel



Research Topic "acetylcholinesterase inhibitor..." > references (5319)

REFERENCES

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

SUBSTANCES

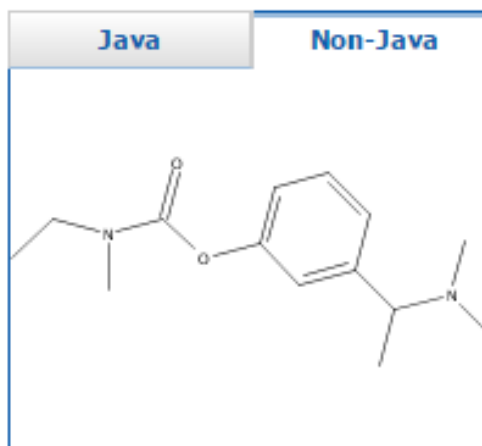
- Chemical Structure
- Markush
- Molecular Formula
- Property
- Substance Identifier

REACTIONS

- Reaction Structure

SUBSTANCES: CHEMICAL STRUCTURE ?

Structure Editor:



Click image to change structure or view detail.

Import CXF

Search

Search Type:

- Exact Structure
- Substructure
- Similarity

Show precision analysis



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More



SUBSTANCE DETAIL ?

Get References

Get Reactions

Get Commercial Sources

Return

1. CAS Registry Number 123441-03-2

~1,738 ~55

C₁₄ H₂₂ N₂ O₂

Carbamic acid, *N*-ethyl-*N*-methyl-, 3-[(1*S*)-1-(dimethylamino)ethyl]phenyl ester

Molecular Weight

250.34

Boiling Point (Predicted)

Value: 316.2±34.0 °C | Condition: Press: 760 Torr

Density (Predicted)

Value: 1.038±0.06 g/cm³ | Condition: Temp: 20 °C Press: 760 Torr

pKa (Predicted)

Value: 8.62±0.50 | Condition: Most Basic Temp: 25 °C

Other Names

Carbamic acid, ethylmethyl-, 3-[(1*S*)-1-(dimethylamino)ethyl]phenyl ester (9CI)

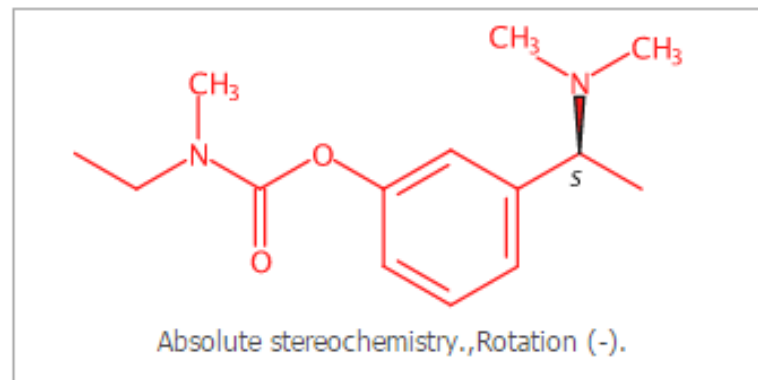
Carbamic acid, ethylmethyl-, 3-[1-(dimethylamino)ethyl]phenyl ester, (*S*-)

ENA 713 free base

Exelon

Prometax

[View more...](#)





-1-(dimethylamino)ethyl]

760 Torr

Temp: 20 °C Press: 760 Torr

Temp: 25 °C

imethylamino)ethyl]phenyl

imethylamino)ethyl]phenyl ester

Get Reactions

Limit results by reaction role:

- Product
- Reactant
- Reagent
- Reactant or reagent
- Catalyst
- Solvent
- Any role

Get

Cancel



REACTIONS ?

Get References

Tools ▼

Send to SciPlann

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

Display Options

▼ 0 of 422 Reactions Selected

Page: 1 of 29 ▶

Analyze

Refine

Analyze by: ?

Reagent ▼

NaH 203

NaOH 187

HBr 140

HCl 132

Disodium carbonate 127

K₂CO₃ 126

H₂O 115

NaHCO₃ 110

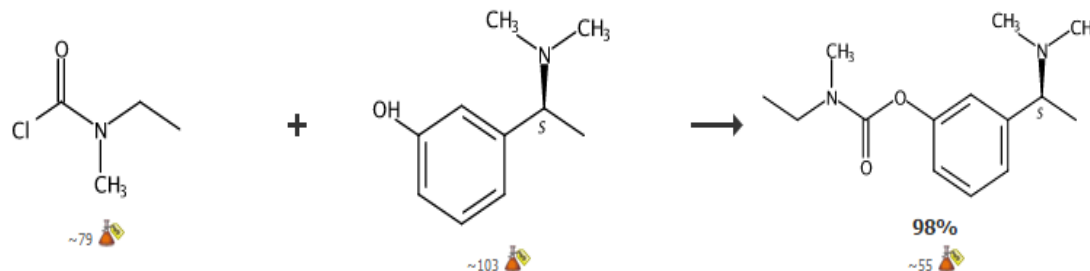
H₂ 101

Et₃N 67

Show More

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

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



Overview

Steps/Stages

1.1 S:Me₂CO, 8 h, reflux

Notes

optimization study, optimized on solvent and reaction time, Reactants: 2, Solvents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

References

Process for preparation of rivastigmine tartrate

[Quick View](#) **PATENTPAK** ▼

By Lu, Chuanyou et al

From Faming Zhuanli Shenqing, 105439906, 30 Mar 2016



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Explore Chemical Reaction

Example: conversion of 2-phenyl acetonitrile to 2-phenyl acetic acid



Explore ▼

Saved Searches ▼

SciPlanner

Reaction Structure substructure > reactions (14115)

REFERENCES

Research Topic
Author Name
Company Name
Document Identifier
Journal
Patent
Tags

SUBSTANCES

Chemical Structure
Markush
Molecular Formula
Property
Substance Identifier

REACTIONS

Reaction Structure

REACTIONS: REACTION STRUCTURE ?

Structure Editor:

Java Non-Java

Click to Edit

Search Type:

- Allow variability only as specified
 Substructure

Import CXF

Search

Advanced Search



Launch a SciFinder substance or re
More

1



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**Tip: By using arrow
determine reactant
and product**

Structure Editor

Drag the reaction arrow to specify reactant or product.

reactant → product

Structure Editor options:
 Structure
 Reaction
 Markush

Get reactions where the structure(s) are:
 Variable only at the specified positions
 Substructures of more complex structures

OK
Cancel

$C_8H_7N \cdot C_8H_8O_2$ 117.15 . 136.15



REFERENCES

Research Topic
Author Name
Company Name
Document Identifier
Journal
Patent
Tags

SUBSTANCES

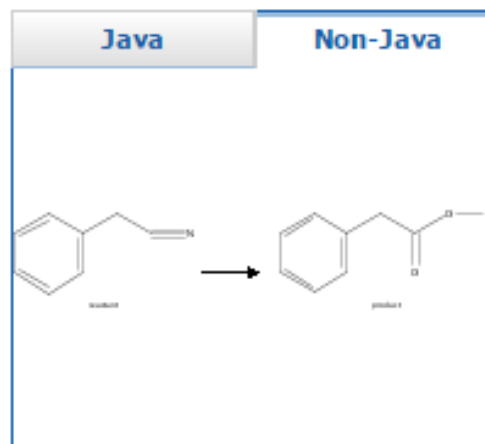
Chemical Structure
Markush
Molecular Formula
Property
Substance Identifier

REACTIONS

Reaction Structure

REACTIONS: REACTION STRUCTURE ?

Structure Editor:



Click image to change structure or view detail.

Import CXF

Search

Advanced Search

Search Type:

- Allow variability only as specified
- Substructure



Launch a SciFinder substance or reaction
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Reaction Structure substructure > reactions (14115)

REACTIONS ?

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Tools ▾

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Analyze

Refine

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

Display Options

0 of 14115 Reactions Selected

Page: 1 of 941

Analyze by: ?

Reagent ▾

HCl 9545

NaOH 5923

KOH 4429

H₂SO₄ 3464

K₂CO₃ 2627

Et₃N 2598

LiOH 2577

AcOK 2019

H₂O 1880

Cs₂CO₃ 1848

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

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



Overview

Steps/Stages

- 1.1 R:D-Glucose, R:KH₂PO₄, R:NaCl, R:MgSO₄, S:H₂O, 35°C, pH 9
- 1.2 S:H₂O, 12 h, 35°C, pH 8

Notes

enzymic, biotransformation, buffered solution, Brevibacterium sp. CCZU12-1 used, Reactants: 1, Reagents: 4, Solvents: 1, Steps: 1, Stages: 2, Most stages in any one step: 2

References

Biotransformation of α -cyclohexyl mandelonitrile or its derivatives into α -cyclohexyl mandelic acid or its derivatives with Brevibacterium sp.

Quick View **PATENTPAK** ▾

By He, Yucai et al

From Faming Zhuanli Shenqing, 103103156, 15 May 2013

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