



DiscoveryGate

One place for the answers you need

Library Connect, Malaysia

Presented by: Doreen Tan
Title: Product Sales Manager, Life Science
Date: 14 July 2005, Thursday

DiscoveryGate

Key Challenge:

Scientific information is scattered and is typically accessed by multiple applications.

The DiscoveryGate Solution

- *Connects* scientists to many information sources, giving them the perspective needed to decide what to do next.
- Integrates, indexes and links the three types of content sources necessary for answering discovery questions
- A single login

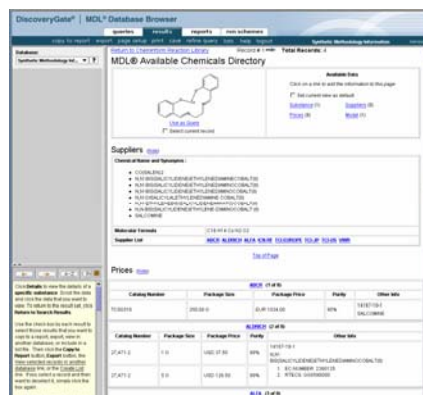


Integrated, Indexed, Linked – Content and Services



Integration, Indexing and Linking

Access to Integrated Content – Single Interface



Chemistry Reference

- CrossFire Beilstein (not indexed in Compound Index)
- CrossFire Gmelin (not indexed in Compound Index)
- MDL Patent Chemistry Database
- OHS Pure Substance MSDS Database
- ISI Index Chemicus

Bioactivity

- MDL Data Drug Report
- MDL Metabolite Database
- MDL Toxicity Database
- National Cancer Institute Databases
- MDL Comprehensive Medicinal Chemistry
- xPharm

Chemical Sourcing and Logistics

- MDL Available Chemicals Directory
- MDL Screening Compounds Directory

Synthetic Methodology

- ChemInform Reaction Library
- Current Synthetic Methodology
- Derwent Journal of Synthetic Methods
- ORGSYN Database
- MDL Solid-Phase Organic Reactions
- MDL Reference Library of Synthetic Methodology
- ISI Current Chemical Reactions
- Integrated Major References Works

Patent sources

- Derwent World Patent Index

- Structures are indexed in Compound Index.
- Hyperlink to 3rd party application to view detailed data



DiscoveryGate 2.0

Faster

- First 12 hits returned as soon as found
- ~8 fold improvement in time to first hits for most searches

Simpler

- Fewer windows, fewer clicks
- Retire Compound Locator
- Database pick list as pull down menu in DB Browser

Better Usability

- Exploit Indexed content with “Also Found In” links
- Circumvents need to directly search Compound Index

New Capabilities

- Query highlighting
- Form logic delivers specific queried data
- List handling (save, combine and export/import)
- Export RDFFile, table files from all databases
- Grid display of Compound Index searches
- Database View of Compound Index results in DB Browser
- Properties View of Compound Index results in DB Browser





Quick Start Guide

Tell us what you think! click here

Administrator Quick Links

Users, Groups, and Permissions

- [Add Users](#)
- [Delete Users](#)
- [Create groups](#)
- [Delete Groups](#)
- [Import Users](#)

Server Configuration and Maintenance

- [Web Links](#)
- [Company Alerts](#)
- [Modify Logo](#)
- [LinkFinderPlus Server URL](#)
- [Intranet Integration](#)

DiscoveryGate Installation

- [Download & deploy the DiscoveryGate package](#)

What Is New?

[new bulletin](#)

[MDL LitLink updated on DiscoveryGate.](#)

Applications

Search individual databases

MDL® Database Browser
Query an individual database: synthesis, bioactivity, physical property, metabolism, toxicity or sourcing.

Link to literature

LinkFinderPlus
Link to over 20,000 journal titles and patent archives.

Review synthetic methods

Integrated Major Reference Works
Review synthetic methods and learn about their scope and limitations.

Browse pharmacology articles

xPharm
Query and browse therapeutic agents, targets, disorders and principles in the xPharm pharmacological reference database

When should I use Compound Locator and when should I use Database Browser?
Click and read...

[Remove descriptive text](#)

FDC Reports - The Pink Sheet

[The Pink Sheet](#)

Search publication:

Other links...

- [NDA Pipeline](#)
- [Pharmaceuticals Approvals Monthly](#)

My Company Links

- [cnn](#)
- [google](#)
- [yahoo](#)

My Company Alerts

Start here! 😊

queries

results

reports

rxn schemes

start search import save clear query help logout

CrossFire Beilstein

Version

Database:

CrossFire Beilstein



CrossFire Beilstein

next

CrossFire Gmelin

MDL® Patent Chemistry Database

MDL® Compound Index

MDL® Comprehensive Medicinal Chem

MDL® Drug Data Report

National Cancer Institute Database

Chemical Sourcing and Logistics Inform

MDL® Available Chemicals Directory

MDL® Screening Compounds Director

Synthetic Methodology Information

ChemInform Reaction Library

Current Synthetic Methodology

Derwent Journal of Synthetic Methods

ORGSYN Database

MDL® Reference Library of Synthetic M

MDL® Solid-Phase Organic Reactions

MDL® Metabolite Database

MDL® Toxicity Database

OHS Database

Derwent World Patents Index

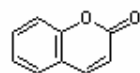
IC Database

CCR Database

Data

Structure

Find this compound and its properties

 Query Highlighting

- Substitution as drawn, exclude tautomers
 Substitution as drawn, include tautomers
 Unlimited substitution on all atoms, exclude tautomers

Allow:

- Multi-component substances
 Ring closure through substitution
 Isotopes Charges Radicals
 Keep fragments separate

[Reset](#)
[Delete](#)
[Info](#)
Search Stereoinformation

AND

 Pharmacological data exists
[Delete](#)
[Duplicate](#)
[Info](#)

Pharmacological Data

AND

Effect

Contains

[Data Lookup...](#)
[Delete](#)
[Duplicate](#)
[Info](#)

AND

Species

Contains

[Data Lookup...](#)
[Delete](#)
[Duplicate](#)
[Info](#)

AND

Route of Application

Contains

[Data Lookup...](#)
[Delete](#)
[Duplicate](#)
[Info](#)

AND

Type (IC50, LD50)

Contains

[Data Lookup...](#)
[Delete](#)
[Duplicate](#)
[Info](#)

start search

Drop down pick list for changing database to search

queries

results

reports

copy to report export page setup print save refine query lists help logout

MDL® Available Chemicals Directory

Version

Database:

MDL® Available Chemical... ?

[View selected records in another database](#)[Set Sort](#) [Create List](#)Find in History: Next

Pages: 1 2 3 4 5 6 7 8 9 10 ▶ Next

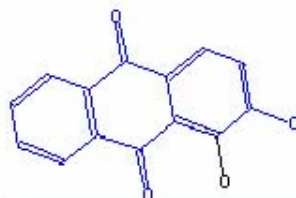
[Select All](#) [Clear All](#)

Total Records: 207

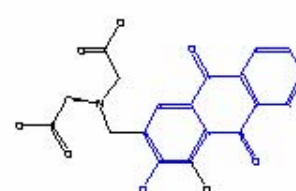
Field Index History

- Today's Searches
- Previous Searches
- Saved Searches
 - Final Anthra
- Temporary Lists
 - L1 336 anthraquinones
 - L2 207 subst anthr**

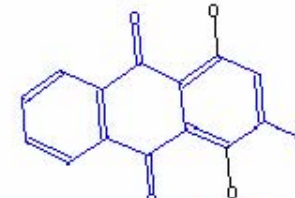
MDL® Available Chemicals Directory



MDL® Available Chemicals Directory



MDL® Available Chemicals Directory



Combine Lists

Result Set 1

- Temporary Lists
 - L1 336 anthraquinones
 - L2 207 subst anthr

- AND OR NOT

Result Set 2

- Temporary Lists
 - L1 336 anthraquinones
 - L2 207 subst anthr

Apply

Cancel

Description:

Final Anthra

Your resulting list is stored in the History tab, Temporary Lists folder. Edit the description there by right-clicking it.

- Save lists
- Combine lists

queries

results

reports

rxn schemes

copy to report export page setup print save refine query lists help logout

ORGSYN Database

Version

Database:

ORGSYN Database ?

Find in History: Next

Field Index History

Today's Searches

Search #1

Search #2

Search #3

Search #4

Search #5

Previous Searches

Feb 13, 2005

Saved Searches

Temporary Lists

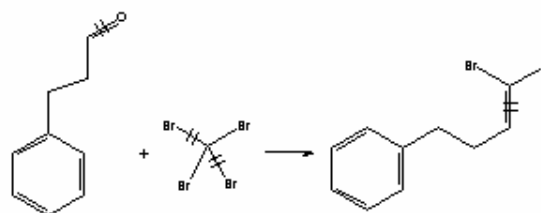
[Return to Search Results](#)[View selected records in another database](#)[Find Similar Reactions](#)

Record #

1 Total Records: 1

Also found in: [ACD](#) [SCD](#) [TOX](#) [NCI](#) [CSM](#) [DJSM](#) [METAB](#) [REFLIB](#) [SPORE](#) [CIRX](#) [OHSPURE](#) [DWPI](#) [IC](#) [CCR](#)

ORGSYN Database

[Use as Query](#) Select current record

Commercial availability

Available Data

Click on a link to add the information to this page

 Set current view as default[Reaction Details](#) (1) [Reactant](#) (2) [Product](#) (1)Reaction Details [\(hide\)](#)

RORG00175674 Reaction Variation 1 of 1

Product no.	% Yield	Grade	%cs	%ds	%de	%ee
1	96	34.75 g				

Reactant no.	Reactant Grade
1	16.4 mL, 16.7 g, 124.3 mmol
2	82.46 g, 248.64 mmol

Step no.

Catalysts and Solvents

Catalyst ID

click ID for details

Solvent ID

click ID for details

Indexed
databases
linked based
on common
structures

queries

results

reports

rxn schemes

copy to report export page setup print save refine query lists help logout

ORGSYN Database

Version

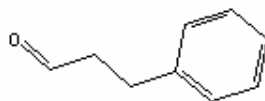
Database:

ORGSYN Database ?

[Return to ORGSYN](#)

← Record # 3 Total Records: 3

MDL® Available Chemicals Directory

[Use as Query](#) Select current record

Available Data

Click on a link to add the information to this page

 Set current view as default[Substance](#) (1)[Suppliers](#) (27)[Prices](#) (27)[Model](#) (1)Prices [\(hide\)](#)[ABCR](#) (1 of 27)

Catalog Number	Package Size	Package Price	Purity	Other Info
AV10367	50.00 G	EUR 14.90	97%	104-53-0
AV10367	250.00 G	EUR 63.20	97%	3-PHENYLPROPIONALDEHYDE
AV10367	1.00 KG	EUR 210.80	97%	1. EINECS: 203-211-8

[ACROS](#) (2 of 27)

Catalog Number	Package Size	Package Price	Purity	Other Info
24051-0050	5 G	USD 16.80	95%	104-53-0 3-PHENYLPROPIONALDEHYDE 1. AIR SENSITIVE 2. AVAILABLE IN USA AND EUROPE 3. EINECS: 203-211-8 4. RTECS: MW4890000
24051-1000	100 G	USD 57.50	95%	

View Supplier data for reaction components with a single click!

Return to reaction Db with another click

queries

results

reports

rxn schemes

copy to report export page setup print save refine query lists help logout

ORGSYN Database

Version

Database:

ORGSYN Database ?

Find in History: Next

Field Index History

Today's Searches

Search #1

Search #2

Search #3

Search #4

Search #5

Previous Searches

Feb 13, 2005

Saved Searches

Temporary Lists

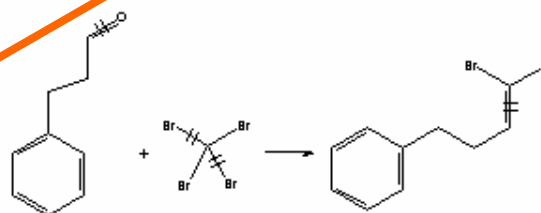
[Return to Search Results](#)[View selected records in another database](#)[Find Similar Reactions](#)

Record #

1 Total Records: 1

Also found in: [ACD](#) [SCD](#) [TOX](#) [NCI](#) [CSM](#) [DJSM](#) [METAB](#) [REFLIB](#) [SPORE](#) [CIRX](#) [OHSPURE](#) [DWPI](#) [IC](#) [CCR](#)

ORGSYN Database

[Use as Query](#) Select current record

Available Data

Click on a link to add the information to this page

 Set current view as default[Reaction Details](#) (1) [Reactant](#) (2) [Product](#) (1)Reaction Details [\(hide\)](#)

RORG00175674 Reaction Variation 1 of 1

Product no.	% Yield	Grade	%cs	%ds	%de	%ee
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Reactant no.	Reactant Grade
1	16.4 mL, 16.7 g, 124.3 mmol
2	82.46 g, 248.64 mmol

Step no.

Catalysts and Solvents

Catalyst ID

click ID for details

Solvent ID

click ID for details

“Find similar reactions” links synthetic methods across all content

queries

results

reports

rxn schemes

copy to report export page setup print save refine query lists help logout

ORGSYN Database

Version

Database:

ORGSYN Database



Find in History:

Next

Field Index History

Today's Searches

Search #1

Previous Searches

Saved Searches

Temporary Lists

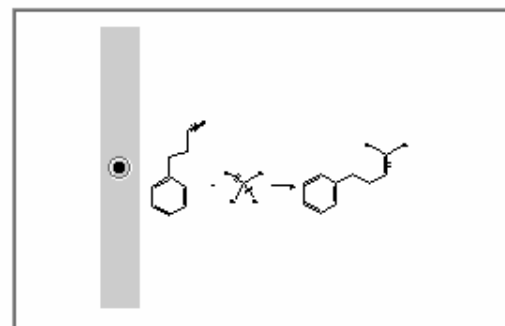
[View selected records in another database](#)[Sort Results](#) [Create List](#)

Pages: 1

Total Records: 1

MDL Database Browser

Please select reaction to search

 Record#1

Pages: 1

Total Records: 1

Please select target application

Beilstein - MDL Database Browser

Start Search

Cancel

[Similar Reactions](#)

Link to
Beilstein
Database to
find
additional
examples

queries

results

reports

rxn schemes

copy to report export page setup print save refine query lists help logout

MDL® Patent Chemistry Database

Version

Database:

MDL® Patent Chemistry ... ?

Find in History: Next

Field Index History

Today's Searches

Search #1

Search #2

Search #3

Previous Searches

Saved Searches

Temporary Lists

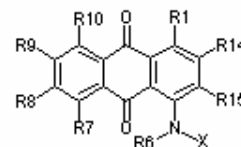
Patent-Specific Data [\(hide\)](#)

Patent-Specific Data record 1 of 2

Citation Number	670
Citation	Patent, Ciba Specialty Chemicals Corporation; Publ.: US6355783 B1 (2002/03/12), Appl.: US2000-735081 (2000/09/07)
Compound Status in Patent	prophetic product
Entry Date	2003/12/24

Patent-Specific Data record 2 of 2

Citation Number	253839
Citation	Patent, UNTEGRATED DNA TECHNOLOGIES, INC.; Publ.: WO2004/26804 A1 (2004/04/01), Appl.: WO2003-US29324 (2003/09/19)
Related Markush Structure (PRN)	3818074
Entry Date	2004/08/20

[Top of Page](#)Related Markush Structure 3818074 [\(hide\)](#)

Label	Value	Size	Attributes	Substituted by	Frequency
R1	R15	□	□	□	□

Markush structures included in patent records

queries

results

reports

copy to report export page setup print save refine query lists help logout

MDL® Compound Index

Version

Database:

MDL® Compound Index



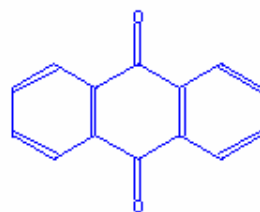
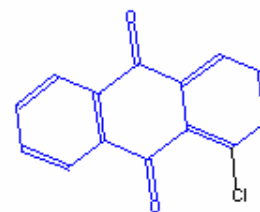
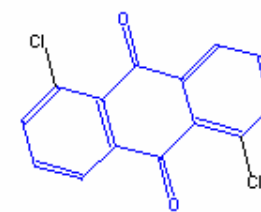
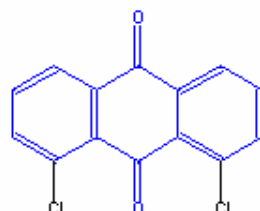
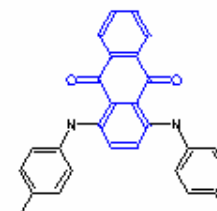
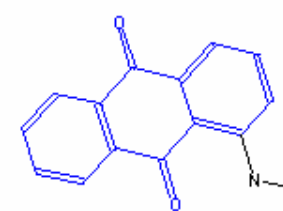
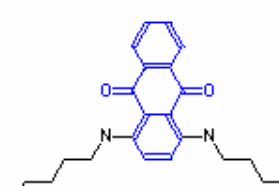
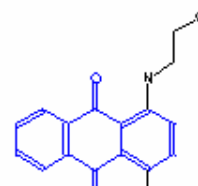
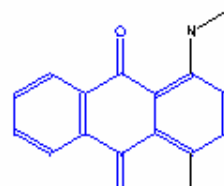
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Next

Field Index

History

- Today's Searches
- Previous Searches
- Saved Searches
- Temporary Lists

Grid View [Database View](#) [Properties View](#)[Create List](#)[View selected records in another database](#)Pages: 1 [Next](#) [Select All](#) [Clear All](#)Total Records: [Get Count](#)[Details](#) Record#1[Details](#) Record#2[Details](#) Record#3[Details](#) Record#4[Details](#) Record#5[Details](#) Record#6

Compound Index
Searched using
Database Browser

Grid view of results

queries

results

reports

copy to report export page setup print save refine query lists help logout

MDL® Compound Index

Version

Database:

MDL® Compound Index



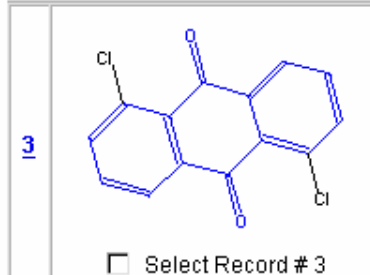
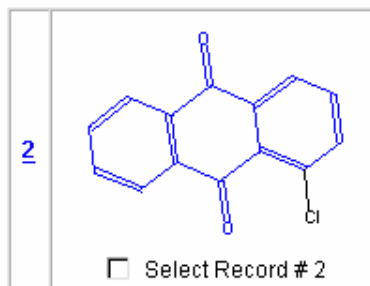
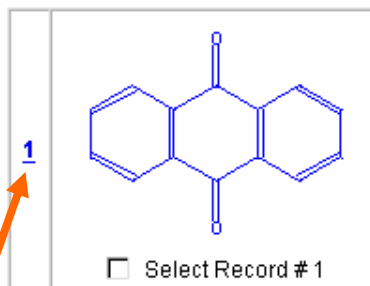
Find in History:

Next

Field Index

History

- Today's Searches
- Previous Searches
- Saved Searches
- Temporary Lists

[Grid View](#) Database View [Properties View](#)
[Create List](#)[View selected records in another database](#)Pages: 1 [Next](#) [Select All](#) [Clear All](#)Total Records: [Get Count](#)

[CIRX](#) [CSM](#)
[DJSM](#) [DWPI](#)
[ACD](#) [Metabolite](#)
[REFLIB](#) [SCD](#)
[Toxicity](#) [NCI](#)
[OHS MSDS](#) [ORGSYN](#)

[CCR](#)

[CIRX](#) [CSM](#)
[DJSM](#) [DWPI](#)
[ACD](#) [REFLIB](#)
[SCD](#) [Toxicity](#)
[NCI](#) [ORGSYN](#)

[CCR](#)

[CIRX](#) [CSM](#)
[ACD](#) [SCD](#)
[Toxicity](#) [NCI](#)
[OHS MSDS](#) [CCR](#)

Compound Index
Searched using
Database Browser

Database view

Click to see row
summary

queries

results

reports

copy to report export page setup print save refine query lists help logout

MDL® Compound Index

Version

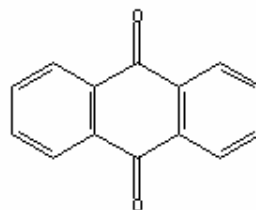
Database:

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[Return to Compound Index](#)[CCR](#) [CIRX](#) [DJSM](#) [DWPI](#) [METAB](#) [NCI](#) [OHSPURE](#) [ORGSYN](#) [REFLIB](#) [SCD](#) [TOX](#)

Record # 1 → Total Records: 308

MDL® Available Chemicals Directory

[Use as Query](#) Select current record

Available Data

Click on a link to add the information to this page Set current view as default[Substance](#) (1)[Suppliers](#) (38)[Prices](#) (38)[Model](#) (1)Substance [\(hide\)](#)

ACD Registry Number	1153
MDL Number	MFCD00001188
CAS Registry Number	84-85-1

Chemical Name and Synonyms :

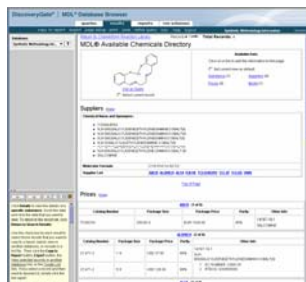
- 'LGC' (1601)
- 'LGC' (2410)
- 9,10-ANTHRAQUINONE
- 9,10-DIHYDRO-9,10-ANTHRACENEDIONE
- 9,10-DIOXOANTHRACENE
- ALPHA RAXIL CA
- ANTHRAQUINONE
- CORBIT
- CORBIT(R)
- GAUCHO BLE
- MORKIT

Click through databases to see all relevant data for indexed record



Linking from Scopus into CrossFire Commander

From Scopus to CrossFire Commander



Chemistry Reference

CrossFire Beilstein (not indexed in Compound Index)

CrossFire Gmelin (not indexed in Compound Index)

MDL Patent Chemistry Database

OHS Pure Substance MSDS Database

ISI Index Chemicus

Bioactivity

MDL Data Drug Report

MDL Metabolite Database

MDL Toxicity Database

National Cancer Institute Databases

MDL Comprehensive Medicinal Chemistry

xPharm

Chemical Sourcing and Logistics

MDL Available Chemicals Directory

MDL Screening Compounds Directory

Synthetic Methodology

ChemInform Reaction Library

Current Synthetic Methodology

Derwent Journal of Synthetic Methods

ORGSYN Database

MDL Solid-Phase Organic Reactions

MDL Reference Library of Synthetic Methodology

ISI Current Chemical Reactions

Integrated Major References Works

Patent sources

Derwent World Patent Index

Accessible via
CrossFire Commander as well.



From Scopus to CrossFire Commander

SCOPUS Register or Login: username Password: Go Athens Login

Search Sources My Alerts My List My Profile Scopus Labs Help

Quick Search Go Search Tips Brought to you by Scopus Team Library catalogue

results list previous 9 of 17 next

Tetrahedron Letters
Volume 35, Issue 14, 1994, Pages 2113-2116

DOI: 10.1016/S0040-4039(00)76773-6 print export e-mail add to list

Document Type: Article

View at Publisher Full Text Copac 図書館カタログ

Mono-N-alkylation of anthranilamides via quinazolinones. An efficient synthesis of G5598, a benzodiazepine dione gpIIbIIIa antagonist

Webb II, R.R., Barker, P.L., Baier, M., Reynolds, M.E., Robarge, K.D., Blackburn, B.K., tischler, M.H., Weese, K.J.

Genentech, Inc., 460 Pt. San Bruno Blvd., South San Francisco, CA 94080, United States

Abstract

The mono-N-**alkylation** of an anthranilamide derivative via the reductive ring opening of a quinazoline precursor, enables the synthesis of benzodiazepine dione derivative G5598, a potent inhibitor of the in vitro binding of GPIIbIIIa to fibrinogen.

Information from the Beilstein Database

[View Compounds](#) [View Reactions](#)

Cited By

This article has been cited 17 times in Scopus: (Showing the 3 most recent)

- . Lakhri, B., Massoui, M. **Synthesis of N',N'-diglycosylated benzimidazol-2-one via an unexpected rearrangement of benzodiazepine derivative** (2005) *Heterocyclic Communications* [Abstract + Refs](#)
- . Van Berkom, L.W.A., De Gelder, R. **6-Spiro-1,4-diazepane-2,5-diones by head-to-tail N1/C2 amide bond formation** (2005) *European Journal of Organic Chemistry* [Abstract + Refs](#)
- . Lakhri, B., Massoui, M. **The unexpected rearrangement of 1,5-benzodiazepin-2,4-dione to a benzimidazol-2-one**

Links to CrossFire Beilstein database via CrossFire Commander



From Scopus to CrossFire Commander: Compound Summary Page

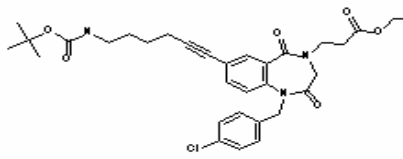
http://scopus-ls.mdli.com - Scopus - Chemical Compounds - Microsoft Internet Explorer

The following information is from the Scopus database

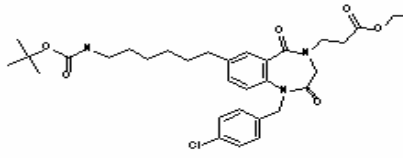
Webb, Robert R., II; Barker, Peter L.; Baier, Mark; Reynolds, Mark E.; Robarge, Kirk D.; et al.
Mono-N-Alkylation of Anthranilylamides via Quinazolinones. An Efficient Synthesis of G5598, A Benzodiazepine Dione GpIIbIIIa Antagonist
 1994, *Tetrahedron Lett.*, **35** (14), pp. 2113-2116

49 Chemical Compounds [View results](#)

1.



2.



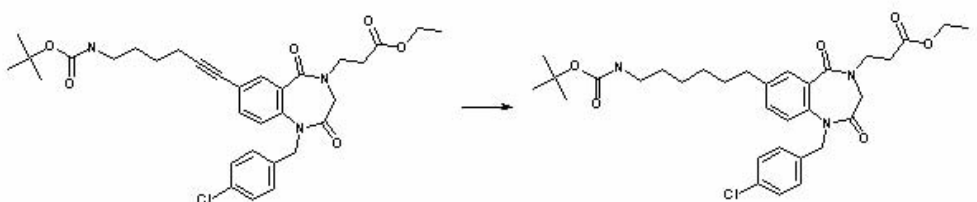
http://scopus-ls.mdli.com - Scopus - Chemical Compounds - Microsoft Internet Explorer

The following information is from the Beilstein Database

Webb, Robert R., II; Barker, Peter L.; Baier, Mark; Reynolds, Mark E.; Robarge, Kirk D.; et al.
Mono-N-Alkylation of Anthranilylamides via Quinazolinones. An Efficient Synthesis of G5598, A Benzodiazepine Dione GpIIbIIIa Antagonist
 1994, *Tetrahedron Lett.*, **35** (14), pp. 2113-2116

32 Chemical Reactions [View compounds \(49\)](#) Results 1 to 32

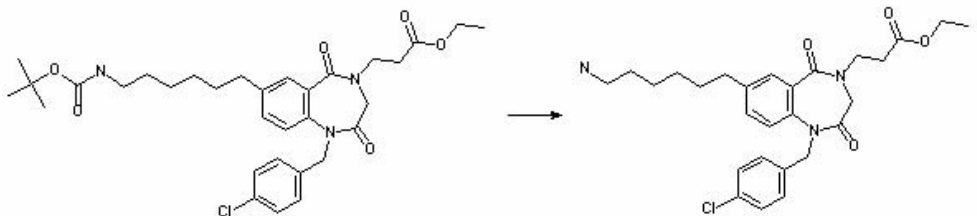
1.



Reaction number	Reaction conditions
3689284	H2 PtO2 ethanol

For more information access the Beilstein Database via:
[CrossFire Commander](#)

2.



View Full Record in CrossFire Commander

MDL CrossFire Commander - [Beilstein Abstracts(2005/02):Q11 Substance 1 of 1]

File Edit Task View Options Window Help

MDL CrossFire Commander Query Results Reports Alerts AutoNom Substances: hit 1 of 1

History | Print Hits | View all | Show Grid | List | Get | Sort Hits | Copy | Export Hits | Copy to Report

Substance Identification

Beilstein Registry Number **6836342**

Chemical Name 3-[7-(6-*tert*-butoxycarbonylamino-hex-1-ynyl)-1-(4-chloro-benzyl)-2,5-dioxo-1,2,3,5-tetrahydro-benzo[e][1,4]diazepin-4-yl]-propionic acid ethyl ester

Autoname 3-[7-(6-*tert*-butoxycarbonylamino-hex-1-ynyl)-1-(4-chloro-benzyl)-2,5-dioxo-1,2,3,5-tetrahydro-benzo[e][1,4]diazepin-4-yl]-propionic acid ethyl ester

Molecular Formula C₃₂H₃₈ClN₃O₆

Molecular Weight 596.12

Lawson Number 29776, 14141, 3388, 1762, 318, 298

Type of Substance heterocyclic

Constitution ID 5940372

Tautomer ID 6525350

Beilstein Reference 6-25

Field Availability List 1-2

Code	Field Name	Occ.
RX	Reaction	2
CNR	Reference	1

Reaction 1 of 2

Reaction ID **3675019**

Reactant BRN **6829348** 3-[1-(4-chloro-benzyl)-7-iodo-2,5-dioxo-1,2,3,5-tetrahydro-benzo[e][1,4]diazepin-4-yl]-propionic acid ethyl ester

6798900 hex-5-ynyl-carbamic acid *tert*-butyl ester

Product BRN **6836342** 3-[7-(6-*tert*-butoxycarbonylamino-hex-1-ynyl)-1-(4-chloro-benzyl)-2,5-dioxo-1,2,3,5-tetrahydro-benzo[e][1,4]diazepin-4-yl]-propionic acid ethyl ester

No. of Reaction Details 1

Reaction Classification Preparation

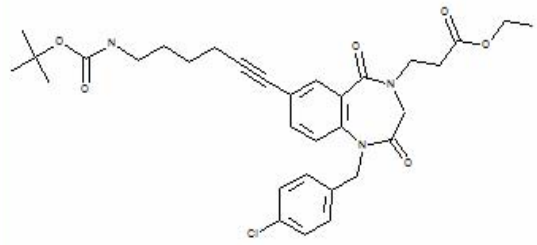
Reagent 1 molpercent Pd(II), Cu(I), NEI₃

Other Conditions Heating

Find similar reactions [click here](#)

Ref. 1 **5892695**, [LitLink](#) ; Journal; Webb, Robert R., II; Barker, Peter L.; Baier, Mark; Reynolds, Mark E.; Robarge, Kirk D.; et al.; TELEAY; Tetrahedron Lett.; EN; 35; 14; 1994; 2113-2116.

Q11: Hit 1



For Help, press F1 | idle | ALL | Substances





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- More than 150,000,000 explicitly searchable data records
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Select Search Type: automatic

An automatically executed series of searches - Current Reaction, Same Transformation, Reaction Substructure, and Reaction Similarity

Query Highlighting

Reset Delete Duplicate Info

AND	clogP (Syracuse Research Cen)	<	5.5	Delete Duplicate Info
AND	Proton Acceptors (O+N)	>	1	Delete Duplicate Info
AND	Proton Donors	>	2	Delete Duplicate Info
AND	Torsional degree of freedom	>	4	Delete Duplicate Info

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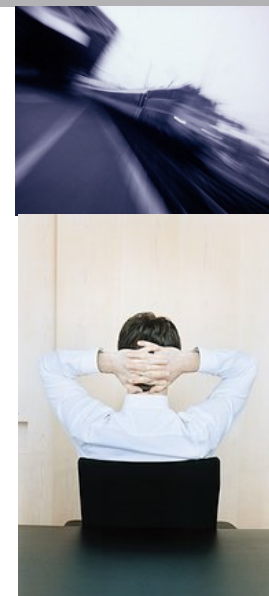
Easy administration – centralized authentication

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Markush structures in Patent Chemistry Database

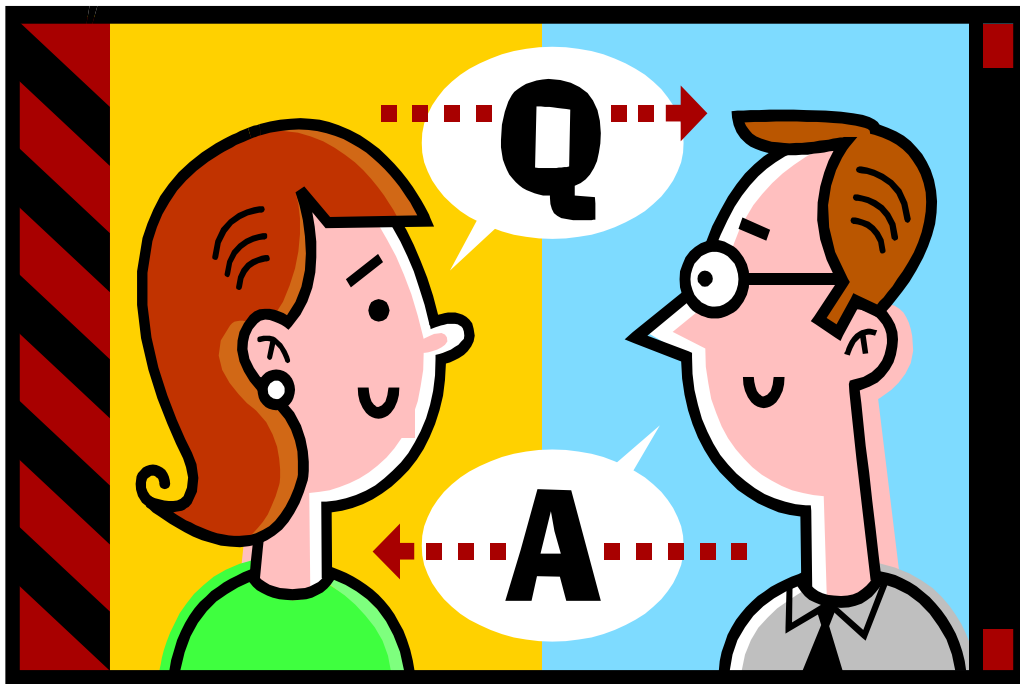
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