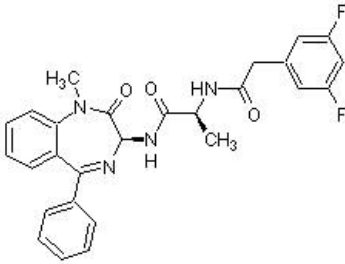


## Product datasheet

# Compound E, gamma;-secretase inhibitor ab142164

[7 References](#) [2 Images](#)

### Overview

<b>Product name</b>	Compound E, gamma;-secretase inhibitor
<b>Description</b>	Cell-permeable, selective, non-competitive, potent $\gamma$ -secretase inhibitor
<b>Biological description</b>	Cell-permeable, selective, non-competitive, potent $\gamma$ -secretase inhibitor ( $IC_{50}$ = 0.3 nM). Active <i>in vitro</i> and <i>in vivo</i> .
<b>Purity</b>	> 99%
<b>CAS Number</b>	209986-17-4
<b>Chemical structure</b>	

### Properties

<b>Chemical name</b>	<i>N</i> -[(1 <i>S</i> )-2-[[[(3 <i>S</i> )-2,3-Dihydro-1-methyl-2-oxo-5-phenyl-1 <i>H</i> -1,4-benzodiazepin-3-yl]amino]-1-methyl-2-oxoethyl]-3,5-difluorobenzeneacetamide
<b>Molecular weight</b>	490.51
<b>Molecular formula</b>	$C_{27}H_{24}F_2N_4O_3$
<b>PubChem identifier</b>	11306390
<b>Storage instructions</b>	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
<b>Solubility overview</b>	Soluble in DMSO to 100 mM
<b>Handling</b>	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.
	Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked</a>

[questions \(FAQ\) page](#) for more details.

**SMILES**

C[C@@H]  
(C(=O)N[C@@H]1C(=O)N(C2=CC=CC=C2C(=N1)C3=CC=CC=C3)C)NC(=O)CC4=CC(=CC(=C4)F)F

**Source**

Synthetic

**Applications**

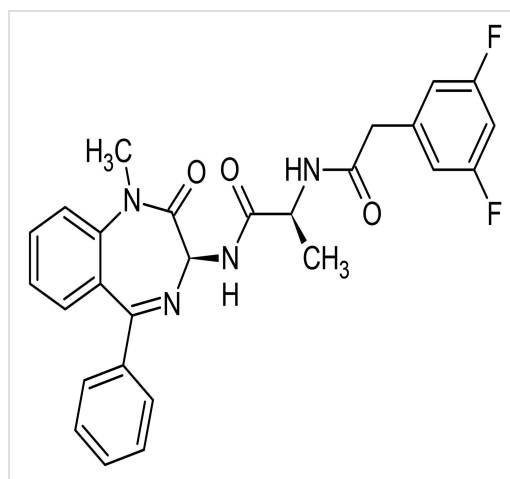
**The Abpromise guarantee**

Our **Abpromise guarantee** covers the use of ab142164 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

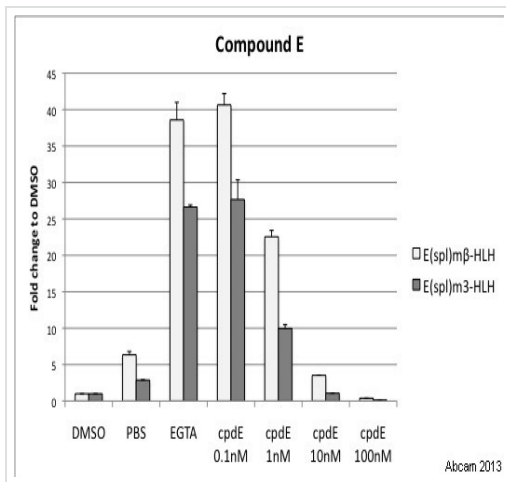
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

**Images**



2D chemical structure image of ab142164, Compound E, gamma;-secretase inhibitor

Chemical Structure - Compound E, gamma;-secretase inhibitor (ab142164)



Kc167 cells were treated with varying concentrations of compound E (ab142164) in DMSO for 16hr at 25°C; DMSO only was used as the negative control. The cells were further incubated for 30 minutes with 4mM EGTA in PBS (in the presence of compound E), and were then lysed for analysis. To measure Notch activity, Notch targets E(spl)mβ-HLH and E(spl)m3-HLH mRNA levels were assayed. Data shows the fold change of mRNA levels of E(spl)mβ-HLH and E(spl)m3-HLH under different conditions, normalised to DMSO treatment (negative control). Notch activation by EGTA is abrogated by treatment with compound E.

Functional Studies - Compound E, gamma;-secretase inhibitor (ab142164)

This image is courtesy of an Abreview submitted by a verified customer

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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