

Product Name: BMS 299897

Catalog No.: 2870

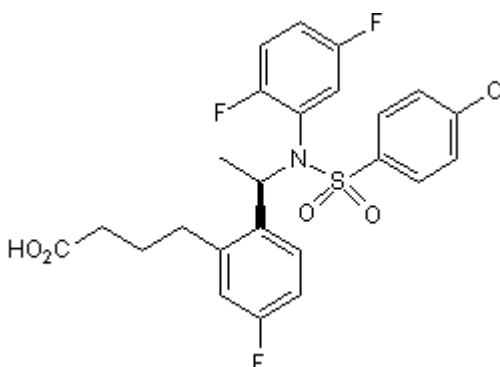
Batch No.: 2

CAS Number: 290315-45-6

IUPAC Name: 2-[(1R)-1-[[[4-Chlorophenyl)sulfonyl](2,5-difluorophenyl)amino]ethyl]-5-fluorobenzenebutanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₄ H ₂₁ ClF ₃ NO ₄ S
Batch Molecular Weight:	511.94
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM ethanol to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.44 (Ethyl acetate:Petroleum ether [1:1])
HPLC:	Shows 99.8% purity
Chiral HPLC:	Shows >99.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	56.31	4.13	2.74
Found	56.52	4.07	2.79

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Orally active, potent γ -secretase inhibitor (IC_{50} = 12 nM). Inhibits A β 40 and A β 42 formation in vitro (IC_{50} values are 7.4 and 7.9 nM respectively) and reduces A β in the brain, plasma and cerebrospinal fluid in vivo. Exhibits no Notch toxicity. Brain penetrant.

Physical and Chemical Properties:

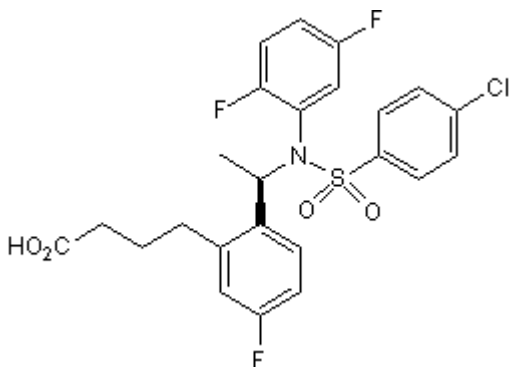
Batch Molecular Formula: C₂₄H₂₁ClF₃NO₄S

Batch Molecular Weight: 511.94

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Barten *et al* (2005) Dynamics of β -Amyloid reductions in brain, cerebrospinal fluid, and plasma of β -amyloid precursor protein transgenic mice treated with a γ -secretase inhibitor. *J.Pharmacol.Exp.Ther.* **312** 635. PMID: 15452193.

Anderson *et al* (2005) Reductions in β -amyloid concentrations in vivo by the γ -secretase inhibitors BMS-289948 and BMS-299897. *Biochem.Pharmacol.* **69** 689. PMID: 15670587.

Goldstein *et al* (2007) Ex vivo occupancy of the γ -secretase inhibitors correlates with brain β -amyloid peptide reduction in Tg2576 mice. *J.Pharmacol.Exp.Ther.* **323** 102. PMID: 17640949.

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