

Product Name: MRK 560

Catalog No.: 4000

Batch No.: 1

CAS Number: 677772-84-8

IUPAC Name: *N*-[*cis*-4-[(4-Chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1,1,1-trifluoromethanesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₇ClF₅NO₄S₂

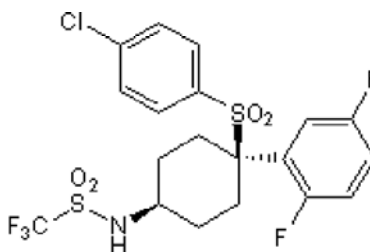
Batch Molecular Weight: 517.92

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Chloroform/Ethyl acetate [95:5])

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.06	3.31	2.7
Found	44.15	3.3	2.82

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

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Description:

MRK 560 is a γ -secretase inhibitor, which selectively inhibits proteolytic cleavage of amyloid precursor protein (APP) over the Notch pathway. MRK 560 reduces levels of A β in vitro (inhibits A β 40 and A β 42 in SH-SY5Y neuroblastoma cells with an IC₅₀ of 0.65 nM) and attenuates plaque deposition. This compound is orally bioavailable.

Physical and Chemical Properties:

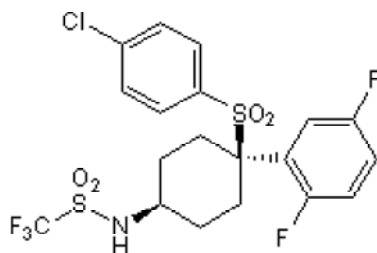
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Batch Molecular Weight: 517.92

Physical Appearance: White solid

Minimum Purity: \geq 99%

Batch Molecular Structure:



References:

Best et al (2007) The novel γ -secretase inhibitor N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1,1,1-trifluoromethanesulfonamide (MRK-560) reduces amyloid plaque deposition without evidence of Notch-related pathology in the T J.Pharm.Exp.Ther. **320** 552. PMID: 17099072.

Best et al (2006) In vivo characterization of A β (40) changes in brain and cerebrospinal fluid using the novel γ -secretase inhibitor N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1,1,1-trifluoromethanesulfonamide (MRK-560) J.Pharm.Exp.Ther. **317** 786. PMID: 16443723.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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.

Licensing Information:

Manufactured and sold under license from Merck & Co., Inc. for use solely for preclinical research purposes (ie: not for administration to or other use in humans).

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