

Product Name: Avagacestat

Catalog No.: 6363

Batch No.: 1

CAS Number: 1146699-66-2

IUPAC Name: (2*R*)-2-[[[4-Chlorophenyl)sulfonyl]][[2-fluoro-4-(1,2,4-oxadiazol-3-yl)phenyl]methyl]amino]-5,5,5-trifluoropentanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₇ClF₄N₄O₄S

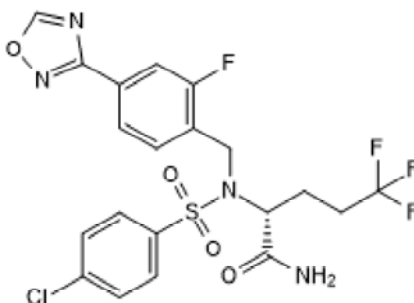
Batch Molecular Weight: 520.89

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	46.12	3.29	10.76
Found	46.13	3.25	10.71

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

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Description:

Highly potent γ -secretase inhibitor (A β 40 IC₅₀ = 0.3 nM). Exhibits >137-fold selectivity for amyloid- β precursor protein (APP) processing over Notch. Reduces plasma and brain A β 40 and A β 42 levels in vivo. Orally bioavailable.

Physical and Chemical Properties:

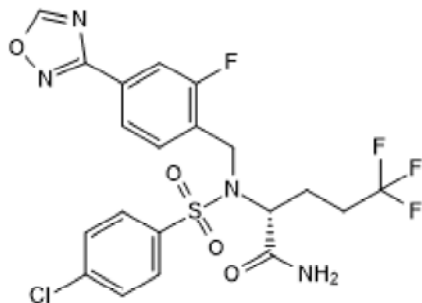
Batch Molecular Formula: C₂₀H₁₇ClF₄N₄O₄S

Batch Molecular Weight: 520.89

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

Albright *et al* (2013) Pharmacodynamics of selective inhibition of γ -secretase by avagacestat. *J.Pharmacol.Exp.Ther.* **344** 686. PMID: 23275065.

Gillman *et al* (2010) Discovery and evaluation of BMS-708163, a potent, selective and orally bioavailable γ -secretase inhibitor. *ACS Med.Chem.Lett.* **1** 120. PMID: 24900185.

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