

Product Name : Semagacestat

Synonyms : LY450139;LY-450139

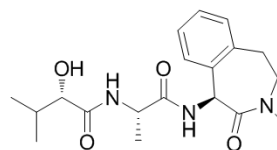
Cat No. : M14445

CAS Number : 425386-60-3

Molecular Formula : C₁₉H₂₇N₃O₄

Formula Weight : 361.44

Chemical Name : Butanamide, 2-hydroxy-3-methyl-N-[(1S)-1-methyl-2-oxo-2-[[[(1S)-2,3,4,5-tetrahydro-3-methyl-2-oxo-1H-3-benzazepin-1-yl]amino]ethyl]-, (2S)-



Description : A potent γ -secretase inhibitor that inhibits β -amyloid A β 42, A β 38 and A β 40 with IC₅₀ of 10.9, 12 and 12.1 nM, respectively; reduces the secretion of A β 42, A β 40, and A β 38 in cells and increases β -CTF in cell lysates, also inhibits Notch signaling with IC₅₀ of 14.1 nM; increases intracellular byproduct peptides, produced along with A β through serial γ -cleavage of β APP, as well as intracellular long A β species, in cell-based and in vivo studies of AD model mice; a pseudo-inhibitor of γ -secretase. Alzheimer's Disease Phase 3 Discontinued

Pathway : Wnt/Notch/Hedgehog

Target : γ -secretase

Receptor : Notch; γ secretase(A β 38); γ secretase(A β 40); γ secretase(A β 42)

Solubility : 10 mM in DMSO

SMILES : CC(C)[C@H](O)C(=O)N[C@@H](C)C(N[C@@H]1C(N(C)CCC2=CC=CC=C2)C(=O)O)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Lanz TA, et al. J Pharmacol Exp Ther. 2006 Nov;319(2):924-33. 2. Mitani Y, et al. J Neurosci. 2012 Feb 8;32(6):2037-50. 3. Elvang AB, et al. J Neurochem. 2009 Sep;110(5):1377-87. 4. Tagami S, et al. Cell Rep. 2017 Oct 3;21(1):259-273.