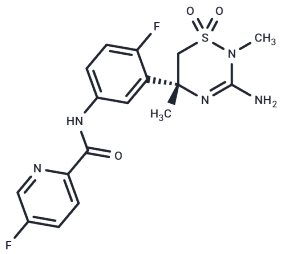
Data Sheet (Cat.No.T7011)

TargetMol

Verubecestat

Chemical Properties



CAS No. : 1286770-55-5

Formula: C17H17F2N5O3S

Molecular Weight: 409.41

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Verubecestat (MK-8931) (MK-8931) is an effective and specific β-secretase inhibitor and β-site APP-cleaving enzyme 1 inhibitor or BACE1 protein inhibitor.
Targets(IC50)	Beta-Secretase,BACE
In vitro	Verubecestat(MK-8931) effectively reduces Aβ40 in cells with a Ki of 7.8 nM and an IC50 of 13 nM[2].
In vivo	Verubecestat(MK-8931) dramatically lowers CSF and cortex Aβ40 in both rats and cynomolgus monkeys following a single oral dose. Due to the 20 h half-life of MK-8931 it is ideal for once-a-day dosing[2].

Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 5 mg/mL (12.21 mM),Sonication is recommended. DMSO: 81 mg/mL (197.85 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4425 mL	12.2127 mL	24.4254 mL
5 mM	0.4885 mL	2.4425 mL	4.8851 mL
10 mM	0.2443 mL	1.2213 mL	2.4425 mL
50 mM	0.0489 mL	0.2443 mL	0.4885 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Evin G, et al. BioDrugs. 2016, 30(3):173-94.
Yan R, et al. Transl Neurodegener. 2016, 5:13.

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