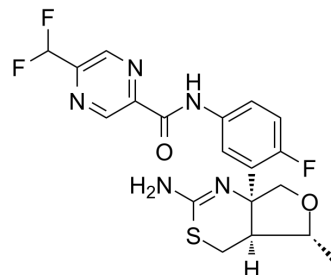


Elenbecestat

Cat. No.:	HY-109055		
CAS No.:	1388651-30-6		
Molecular Formula:	C ₁₉ H ₁₈ F ₃ N ₅ O ₂ S		
Molecular Weight:	437.44		
Target:	Beta-secretase		
Pathway:	Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (228.60 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.2860 mL	11.4301 mL	22.8603 mL
		5 mM	0.4572 mL	2.2860 mL	4.5721 mL
10 mM		0.2286 mL	1.1430 mL	2.2860 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.75 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.75 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Elenbecestat (E2609) is a potent, orally bioavailable and CNS-penetrant BACE-1 inhibitor. Elenbecestat has the potential for Alzheimer's disease (AD) research ^{[1][2]} .
IC₅₀ & Target	BACE-1 ^[1]
In Vitro	Elenbecestat (E2609) is a potent BACE1 inhibitor with an IC ₅₀ of ~7 nmol/L in cell-based assay ^[2] . Elenbecestat has been shown to reduce Ab production in the plasma, brain, and cerebrospinal fluid (CSF) of rodents ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Elenbecestat (E2609; 0.3-30 mg/kg; p.o.) potently inhibits Ab1-40 and Ab1-42 production in the plasma and CSF of non-

human primates^[2].

Elenbecestat displays the plasma half-life of 12-16 hours after once daily dosing^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Cynomolgus monkeys (Pharmacokinetic analysis) ^[2]
Dosage:	0.3 mg/kg; 1 mg/kg; 3 mg/kg; 30 mg/kg
Administration:	Oral administration
Result:	Potently inhibits Ab1-40 and Ab1-42 production in the plasma and CSF.

REFERENCES

[1]. Kumar D, et al. Secretase inhibitors for the treatment of Alzheimer's disease: Long road ahead. Eur J Med Chem. 2018 Mar 25;148:436-452.

[2]. A single dose of the beta-secretase inhibitor, e2609, decreases CSF bace1 enzymatic activity in cynomolgus monkeys. Alzheimer's & Dementia, 8(4), P224.

Caution: Product has not been fully validated for medical applications. For research use only.

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