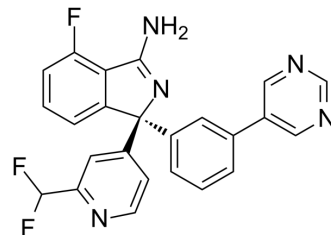


AZD3839 free base

Cat. No.:	HY-13438		
CAS No.:	1227163-84-9		
Molecular Formula:	C ₂₄ H ₁₆ F ₃ N ₅		
Molecular Weight:	431.41		
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 : 125 mg/mL (289.75 mM; Need ultrasonic)

Concentration	Solvent	Mass	Preparing Stock Solutions		
			1 mg	5 mg	10 mg
1 mM			2.3180 mL	11.5899 mL	23.1798 mL
5 mM			0.4636 mL	2.3180 mL	4.6360 mL
10 mM			0.2318 mL	1.1590 mL	2.3180 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (4.82 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (4.82 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.82 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AZD3839 free base is a potent and selective orally active, brain-permeable BACE1 inhibitor ($K_i=26$ nM). AZD3839 free base shows 14 and >1000-fold selectivity against BACE2 and cathepsin D, respectively. AZD3839 free base exhibits dose- and time-dependent lowering of plasma, brain, and cerebrospinal fluid Aβ levels in mouse, guinea pig, and non-human primate. AZD3839 free base can be used for the research of Alzheimer's disease^{[1][2]}.

CUSTOMER VALIDATION

-
- Neuron. 2023 Apr 4;S0896-6273(23)00220-9.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Sparve E et al. Prediction and modeling of effects on the QTc interval for clinical safety margin assessment, based on single-ascending-dose study data with AZD3839. J Pharmacol Exp Ther. 2014 Aug;350(2):469-78.

[2]. Jeppsson F et al. Discovery of AZD3839, a potent and selective BACE1 inhibitor clinical candidate for the treatment of Alzheimer disease. J Biol Chem. 2012 Nov 30;287(49):41245-57.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA