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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

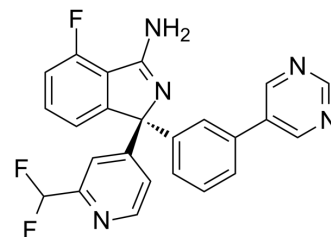
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

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)					
	Preparing Stock Solutions	Solvent Concentration	Mass	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	1. 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					
	2. 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					
	3. 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]}.
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CUSTOMER VALIDATION

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

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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