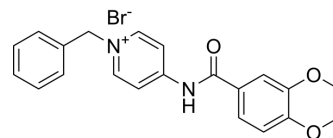


AChe-IN-26

Cat. No.:	HY-151370		
Molecular Formula:	C ₂₁ H ₂₁ BrN ₂ O ₃		
Molecular Weight:	429.31		
Target:	Cholinesterase (ChE)		
Pathway:	Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (582.33 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	2.3293 mL	11.6466 mL	23.2932 mL
			5 mM	0.4659 mL	2.3293 mL	4.6586 mL
			10 mM	0.2329 mL	1.1647 mL	2.3293 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 (4.84 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.84 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.84 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	ACHe-IN-26 (compound 4a) is an AChE (acetylcholinesterase) inhibitor with an IC ₅₀ value of 0.42 μM. AChE-IN-26 can be used for the research of Alzheimer's disease ^[1] .
IC ₅₀ & Target	IC ₅₀ : 0.42 μM (AChE) ^[1]
In Vitro	ACHe-IN-26 (1 and 10 μM; 20 min) shows an in-vitro inhibition to AChE of 91.45%, and inhibits AChE with an IC ₅₀ value of 0.42 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Abdullaha M, et al. Discovery of methoxy-naphthyl linked N-(1-benzylpiperidine) benzamide as a blood-brain permeable dual inhibitor of acetylcholinesterase and butyrylcholinesterase. Eur J Med Chem. 2020 Dec 1;207:112761.

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

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