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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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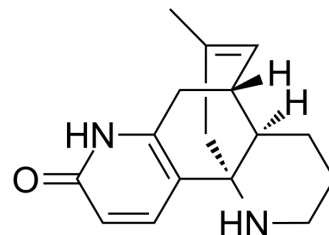
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Huperzine B

Cat. No.:	HY-N2043
CAS No.:	103548-82-9
Molecular Formula:	C ₁₆ H ₂₀ N ₂ O
Molecular Weight:	256.34
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (97.53 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		3.9011 mL	19.5053 mL	39.0107 mL
		5 mM		0.7802 mL	3.9011 mL	7.8021 mL
		10 mM		0.3901 mL	1.9505 mL	3.9011 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: ≥ 1 mg/mL (3.90 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1 mg/mL (3.90 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 1 mg/mL (3.90 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Huperzine B is a Lycopodium alkaloid isolated from Huperzia serrata and a highly selective acetylcholinesterase (AChE) inhibitor. Huperzine B can be used to improve Alzheimer's disease ^{[1][2]} .
IC ₅₀ & Target	AChE ^[1]

REFERENCES

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- [1]. Zhang HY, et al. Huperzine B, a novel acetylcholinesterase inhibitor, attenuates hydrogen peroxide induced injury in PC12 cells. *Neurosci Lett*. 2000 Sep 29;292(1):41-4.
- [2]. He XC, et al. Study on dual-site inhibitors of acetylcholinesterase: Highly potent derivatives of bis- and bifunctional huperzine B. *Bioorg Med Chem*. 2007 Feb 1;15(3):1394-408.
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Caution: Product has not been fully validated for medical applications. For research use only.

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