## Huperzine B

Cat. No.:	HY-N2043	
CAS No.:	103548-82-9	$\sim$
Molecular Formula:	$C_{16}H_{20}N_{2}O$	Г
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 Mass Concentration	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 so	lubility information to select the ap	propriate 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					
	<ol> <li>Add each solvent of Solubility: ≥ 1 mg/</li> </ol>	one by one: 10% DMSO >> 90% cor mL (3.90 mM); Clear solution	n oil			

BIOLOGICAL ACTIVITY				
Description	Huperzine B is a Lycopodium alkaloid isolated from Huperzia serrata and a highly selective acetylcholinesterase (AChE) inhibitor. Huperzine B can be uesd to can be used to improve Alzheimer's disease <sup>[1][2]</sup> .			
IC <sub>50</sub> & Target	AChE <sup>[1]</sup>			

## REFERENCES



[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.

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

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