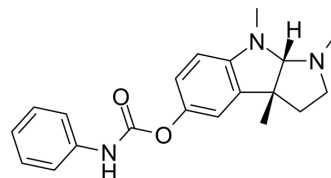


## Buntanetap

Cat. No.:	HY-16009		
CAS No.:	116839-68-0		
Molecular Formula:	C <sub>20</sub> H <sub>23</sub> N <sub>3</sub> O <sub>2</sub>		
Molecular Weight:	337.42		
Target:	Cholinesterase (ChE); Amyloid-β; α-synuclein; Huntingtin		
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 : 230 mg/mL (681.64 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.9637 mL	14.8183 mL	29.6367 mL
		5 mM	0.5927 mL	2.9637 mL	5.9273 mL
10 mM		0.2964 mL	1.4818 mL	2.9637 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: ≥ 5.75 mg/mL (17.04 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5.75 mg/mL (17.04 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Buntanetap ((+)-Phenserine) is a multiple neurotoxic protein translation inhibitor with oral activity, including amyloid precursor protein (APP), α-synuclein (αSYN) and huntingtin protein (HTT). Buntanetap has anti-inflammatory effects and can be used in the study of Alzheimer's disease and Parkinson's disease <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	AChE
In Vitro	Buntanetap (1-25 μM; 24 h) significantly reduces the expression of APP, αSYN, and HTT in SH-SY5Y cells <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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- [1]. 10 Fang C, et al. Buntanetap, a Novel Translational Inhibitor of Multiple Neurotoxic Proteins, Proves to Be Safe and Promising in Both Alzheimer's and Parkinson's Patients. J Prev Alzheimers Dis. 2023;10(1):25-33.
- [2]. 20 Chen XQ, et al. Posiphen Reduces the Levels of Huntingtin Protein through Translation Suppression. Pharmaceuticals. 2021 Dec 7;13(12):2109.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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