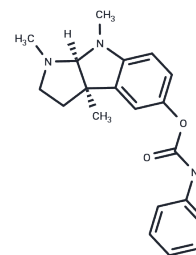


## Buntanetap

## Chemical Properties

CAS No. :	116839-68-0
Formula:	C <sub>20</sub> H <sub>23</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	337.42
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Buntanetap ((+)-Phenserine) is an orally active inhibitor of polyneurotoxic proteins (TINAPs) for the study of neurological disorders, endocrine and metabolic disorders, and cardiovascular diseases.
Targets(IC50)	Beta Amyloid,Huntingtin,Cholinesterase (ChE)
In vitro	Buntanetap (1-25 μM, 24 h) significantly decreased the expression of APP, αSYN and HTT in SH-SY5Y cells. [2]

## Solubility Information

Solubility	DMSO: 200 mg/mL (592.73 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (14.82 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
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
50 mM	0.0593 mL	0.2964 mL	0.5927 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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.

Chen XQ, et al. Posiphen Reduces the Levels of Huntingtin Protein through Translation Suppression. *Pharmaceutics.* 2021 Dec 7;13(12):2109.

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