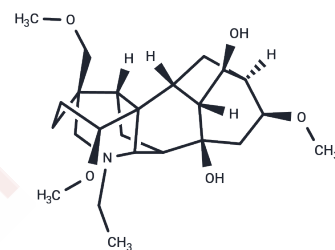


## Talatisamine

## Chemical Properties

CAS No. :	20501-56-8
Formula:	C <sub>24</sub> H <sub>39</sub> N <sub>5</sub> O <sub>5</sub>
Molecular Weight:	421.57
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	1. Talatisamine (12 $\mu$ M) and TEA (5mM) inhibits the enhanced I(K) caused by A $\beta$ 4 oligomers, attenuates cytotoxicity of A $\beta$ oligomers by restoring cell viability and suppressing K(+) loss related apoptotic response. 2. Talatisamine can therefore be considered as a leading compound worthy of further investigations.
Targets(IC50)	Potassium Channel

## Solubility Information

Solubility	1M HCl: 100 mg/mL (237.21 mM), Sonication is recommended. DMSO: 32 mg/mL (75.91 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.74 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.3721 mL	11.8604 mL	23.7209 mL
5 mM	0.4744 mL	2.3721 mL	4.7442 mL
10 mM	0.2372 mL	1.186 mL	2.3721 mL
50 mM	0.0474 mL	0.2372 mL	0.4744 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

Song M K , Liu H , Jiang H L , et al. Discovery of talatisamine as a novel specific blocker for the delayed rectifier K<sup>+</sup> channels in rat hippocampal neurons.[J]. Neuroscience, 2008, 155(2):469-475.

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