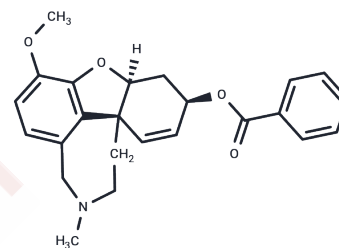


GLN-1062

## Chemical Properties

CAS No. : 224169-27-1  
 Formula: C<sub>24</sub>H<sub>25</sub>NO<sub>4</sub>  
 Molecular Weight: 391.46  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
*Actual storage temperature shall be subject to the COA.*



## Biological Description

Description	GLN-1062 is a pro-drug of galantamine and liberates galantamine on cleavage by a carboxyesterase in the brain.
Targets(IC50)	Others
In vivo	GLN-1062 has more than 15-fold higher bioavailability in the brain than the same doses of galantamine. In animal models of drug-induced amnesia, GLN-1062 produced several fold larger cognitive improvement than the same doses of galantamine, without exhibiting any significant levels of gastrointestinal side effects that are typical for the unmodified drug and other inhibitors of cholinesterases, such as donepezil and rivastigmin. In the ferret, dramatically reduced emetic and behavioral responses were observed when GLN-1062 was administered instead of galantamine[1].

## Solubility Information

Solubility	DMSO: 45 mg/mL (114.95 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: 2 mg/mL (5.11 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	2.5545 mL	12.7727 mL	25.5454 mL
5 mM	0.5109 mL	2.5545 mL	5.1091 mL
10 mM	0.2555 mL	1.2773 mL	2.5545 mL
50 mM	0.0511 mL	0.2555 mL	0.5109 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

Maelicke A, et al. Memogain is a galantamine pro-drug having dramatically reduced adverse effects and enhanced efficacy. *J Mol Neurosci.* 2010 Jan;40(1-2):135-7.

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