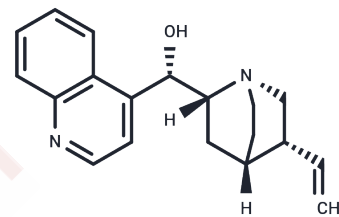


## Cinchonine

## Chemical Properties

CAS No. :	118-10-5
Formula:	C <sub>19</sub> H <sub>22</sub> N <sub>2</sub> O
Molecular Weight:	294.39
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	Cinchonine (LA40221), a local anesthetic of the amide type, now generally used for surface anesthesia. It is one of the most potent and toxic of the long-acting local narcotics and its parenteral use is restricted to spinal anesthesia.
Targets(IC50)	Apoptosis, Calcium Channel, Caspase, Parasite, Autophagy, P-gp

## Solubility Information

Solubility	DMSO: 2.95 mg/mL (10.02 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3969 mL	16.9843 mL	33.9685 mL
5 mM	0.6794 mL	3.3969 mL	6.7937 mL
10 mM	0.3397 mL	1.6984 mL	3.3969 mL
50 mM	0.0679 mL	0.3397 mL	0.6794 mL

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

- Oka M, et al. Eur J Pharmacol. 2002 Oct 4;452(2):175-81.  
 Xue H, Xing H J, Wang B, et al. Cinchonine, a Potential Oral Small-Molecule Glucagon-Like Peptide-1 Receptor Agonist, Lowers Blood Glucose and Ameliorates Non-Alcoholic Steatohepatitis. Drug Design, Development and Therapy. 2023: 1417-1432.

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