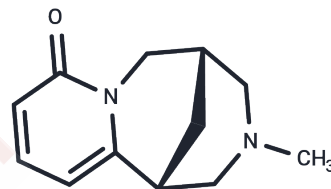


N-Methylcytisine

Chemical Properties

CAS No. :	486-86-2
Formula:	C ₁₂ H ₁₆ N ₂ O
Molecular Weight:	204.27
Storage:	Keep away from direct sunlight 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. N-Methylcytisine (Caulophylline)'s nicotinic receptors have high affinity (KD = 5 nM) to nAChR from squid optical ganglia. 2. N-Methylcytisine and N, N-dimethylcytisine did not displace ¹⁴ C-tubocurarine at a concentration of .1 mM, cytisine was the only effective inhibitor of ¹⁴ C-tubocurarine specific binding (Ki=7 nM).
Targets(IC50)	AChR

Solubility Information

Solubility	DMSO: 27.5 mg/mL (134.63 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 (9.79 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

	1mg	5mg	10mg
1 mM	4.8955 mL	24.4774 mL	48.9548 mL
5 mM	0.9791 mL	4.8955 mL	9.791 mL
10 mM	0.4895 mL	2.4477 mL	4.8955 mL
50 mM	0.0979 mL	0.4895 mL	0.9791 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

Determination of N-methylcytisine in rat plasma by UPLC-MS/MS and its application to pharmacokinetic study[J].
Journal of Chromatography B, 2015, 990:118-124.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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