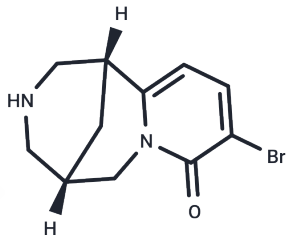
Data Sheet (Cat.No.T10108)

TargetMol

3-Bromocytisine

Chemical Properties



CAS No. : 207390-14-5

Formula: C11H13BrN2O

Molecular Weight: 269.14

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	3-Bromocytisine ((-)-3-Bromocytisine) is an effective agonist of nAChR (IC50s: 0.28, 0.30 and 31.6 nM for hα4β4, hα4β2, and hα7).
Targets(IC50)	AChR
In vitro	3-Bromocytisine shows different effects on high and low ACh sensitivity α4β2 nAChRs with EC50s are 8 and 50 nM, respectively [2].

Solubility Information

Solubility	DMSO: 50 mg/mL (185.78 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 (7.43 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7155 mL	18.5777 mL	37.1554 mL
5 mM	0.7431 mL	3.7155 mL	7.4311 mL
10 mM	0.3716 mL	1.8578 mL	3.7155 mL
50 mM	0.0743 mL	0.3716 mL	0.7431 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

Houlihan LM, et al. Activity of cytisine and its brominated isosteres on recombinant human alpha7, alpha4beta2 and alpha4beta4 nicotinic acetylcholine receptors. J Neurochem. 2001 Sep;78(5):1029-43.
Moroni M, et al. alpha4beta2 nicotinic receptors with high and low acetylcholine sensitivity: pharmacology, stoichiometry, and sensitivity to long-term exposure to nicotine. Mol Pharmacol. 2006 Aug;70(2):755-68.