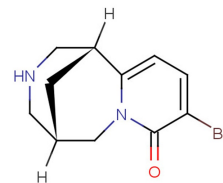


3-Bromocytisine

Chemical Properties

CAS No.:	207390-14-5
Formula:	C ₁₁ H ₁₃ BrN ₂ O
Molecular Weight:	269.14
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	3-Bromocytisine (3-Br-cytisine) is a potent nACh receptors agonist, (IC ₅₀ s: 0.28, 0.30 and 31.6 nM for $\alpha 4\beta 4$, $\alpha 4\beta 2$, and $\alpha 7$ -nACh).
Targets(IC ₅₀)	$\alpha 4\beta 4$: 0.28 nM $\alpha 4\beta 2$: 0.30 nM $\alpha 7$: 31.6 nM
In vitro	3-Bromocytisine shows different effects on high and low ACh sensitivity $\alpha 4\beta 2$ nAChRs with EC ₅₀ s are 8 and 50 nM, respectively [1][2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.716 mL	18.578 mL	37.155 mL
5 mM	0.743 mL	3.716 mL	7.431 mL
10 mM	0.372 mL	1.858 mL	3.716 mL
50 mM	0.074 mL	0.372 mL	0.743 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Houlihan LM, et al. Activity of cytosine and its brominated isosteres on recombinant human $\alpha 7$, $\alpha 4\beta 2$ and $\alpha 4\beta 4$ nicotinic acetylcholine receptors. J Neurochem. 2001 Sep;78(5):1029-43.
- Moroni M, et al. $\alpha 4\beta 2$ 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.

Inhibitors · Natural Compounds · Compound Libraries

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