

(Rac)-Sabcomeline HCl

Chemical Properties

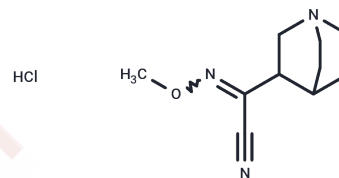
CAS No. : 133642-67-8

Formula: C₁₀H₁₆ClN₃O

Molecular Weight: 229.71

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Sabcomeline HCl is an M1 receptor agonist that can be used to study Alzheimer's disease.
Targets(IC50)	AChR
In vivo	Sabcomeline HCl dose-dependently increased dopamine efflux in the medial prefrontal cortex but only a high dose of sabcomeline HCl (1 mg/kg; s.c.; rats) increased that in the nucleus accumbens. According to the analysis of net-AUC (area under the curve) values of acetylcholine and dopamine levels, the rank order of ability of these drugs to increase acetylcholine or dopamine levels is sabcomeline HCl>xanomeline approximately AC260584>N-desmethylozapine.[5]

Solubility Information

Solubility	DMSO: 50 mg/mL (217.67 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	4.3533 mL	21.7666 mL	43.5332 mL
5 mM	0.8707 mL	4.3533 mL	8.7066 mL
10 mM	0.4353 mL	2.1767 mL	4.3533 mL
50 mM	0.0871 mL	0.4353 mL	0.8707 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

Hosoi R, et al. Effect of sabcomeline on muscarinic and dopamine receptor binding in intact mouse brain. *Ann Nucl Med*. 2003;17(2):123-130.

Hatcher JP, et al. Sabcomeline (SB-202026), a functionally selective M1 receptor partial agonist, reverses delay-induced deficits in the T-maze. *Psychopharmacology (Berl)*. 1998;138(3-4):275-282.

Hosoi R, et al. Effect of sabcomeline on muscarinic and dopamine receptor binding in intact mouse brain. *Ann Nucl Med*. 2003;17(2):123-130.

Watson JM, et al. In vitro characterisation of the muscarinic receptor partial agonist, sabcomeline, in rat cortical and heart membranes. *Eur J Pharmacol*. 1999;370(1):69-77.

Li Z, et al. Effect of muscarinic receptor agonists xanomeline and sabcomeline on acetylcholine and dopamine efflux in the rat brain; comparison with effects of 4-[3-(4-butylpiperidin-1-yl)-propyl]-7-fluoro-4H-benzo[1,4]oxazin-3-one (AC260584) and N-desmethylclozapine. *Eur J Pharmacol*. 2008;596(1-3):89-97.

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