Sabcomeline hydrochloride

Cat. No.: HY-106432A

CAS No.: 159912-58-0

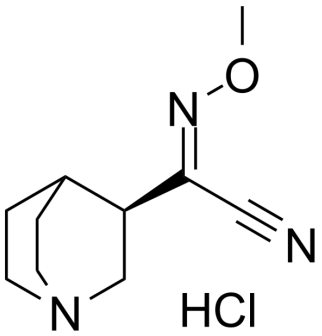
Molecular Formula: $C_{10}H_{16}ClN_3O$

Molecular Weight: 229.71

Target: mAChR

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, stored under nitrogen, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 125 mg/mL (544.16 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	4.3533 mL	21.7666 mL	43.5331 mL
5 mM	0.8707 mL	4.3533 mL	8.7066 mL
10 mM	0.4353 mL	2.1767 mL	4.3533 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Sabcomeline (SB-202026) hydrochloride is a potent and functionally selective muscarinic M1 receptor partial agonist that improve cognition. Sabcomeline hydrochloride can be used for Alzheimer's disease research[1][2].

IC_{50} & Target

Muscarinic M1 receptor[1][2]

REFERENCES

[1]. Hosoi R, Kobayashi K, Ishida J, Yamaguchi M, Inoue O. Effect of sabcomeline on muscarinic and dopamine receptor binding in intact mouse brain. Ann Nucl Med. 2003;17(2):123-130.

[2]. Hatcher JP, Loudon JM, Hagan JJ, Clark MS. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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