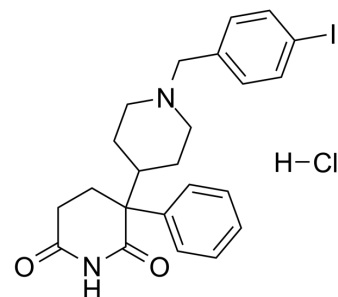


mAChR-IN-1 hydrochloride

Cat. No.:	HY-12426A
CAS No.:	119391-73-0
Molecular Formula:	C ₂₃ H ₂₆ ClIN ₂ O ₂
Molecular Weight:	524.82
Target:	mAChR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 65 mg/mL (123.85 mM; Need ultrasonic)
H₂O : 1 mg/mL (1.91 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.9054 mL	9.5271 mL	19.0542 mL
	5 mM	0.3811 mL	1.9054 mL	3.8108 mL
	10 mM	0.1905 mL	0.9527 mL	1.9054 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.17 mg/mL (4.13 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.17 mg/mL (4.13 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.17 mg/mL (4.13 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

mAChR-IN-1 hydrochloride is a potent muscarinic cholinergic receptor (mAChR) antagonist, with an IC₅₀ of 17 nM^[1].

IC₅₀ & Target

IC₅₀: 17 nM (mAChR)^[1].

REFERENCES

[1]. Wilson AA, et al. Synthesis and biological evaluation of [125I]- and [123I]-4-iododexetimide, a potent muscarinic cholinergic receptor antagonist. J Med Chem. 1989 May;32(5):1057-62.

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

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