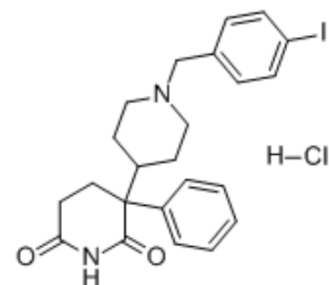


mAChR-IN-1 hydrochloride

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, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 65 mg/mL (123.85 mM; Need ultrasonic)				
		Solvent Concentration	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	<ol style="list-style-type: none"> 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 IC ₅₀ of 17 nM ^[1]
IC ₅₀ & Target	IC ₅₀ : 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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