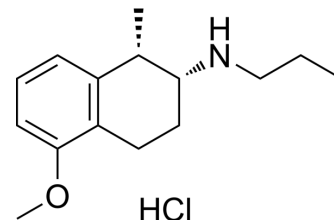


AJ-76 hydrochloride

Cat. No.:	HY-101065
CAS No.:	85378-82-1
Molecular Formula:	C ₁₅ H ₂₄ ClNO
Molecular Weight:	269.81
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

Methanol : 25 mg/mL (92.66 mM; Need ultrasonic)
DMSO : 12.5 mg/mL (46.33 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.7063 mL	18.5316 mL	37.0631 mL
	5 mM	0.7413 mL	3.7063 mL	7.4126 mL
	10 mM	0.3706 mL	1.8532 mL	3.7063 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1 mg/mL (3.71 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1 mg/mL (3.71 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AJ-76 hydrochloride ((+)-AJ 76 hydrochloride) is an antagonist of dopamine autoreceptor with pK_i values of 6.95, 6.67, 6.37, 6.21 and 6.07 for hD₃, hD₄, hD_{2S}, hD_{2L} and rD₂ receptors, respectively.

REFERENCES

- [1]. Kullingsjö H, et al. Effects of repeated administration of the preferential dopamine autoreceptor antagonist, (+)-AJ76, on locomotor activity and brain DA metabolism in the rat. *Eur J Pharmacol.* 1991 Dec 3;205(3):241-6.

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

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