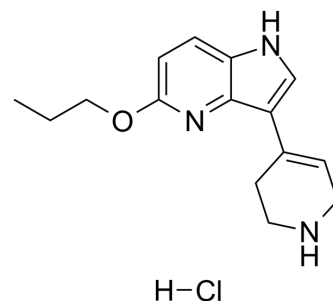


CP94253 hydrochloride

Cat. No.:	HY-103151
CAS No.:	845861-39-4
Molecular Formula:	C ₁₅ H ₂₀ ClN ₃ O
Molecular Weight:	293.79
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	-20°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	DMSO : 125 mg/mL (425.47 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.4038 mL	17.0190 mL	34.0379 mL
		5 mM	0.6808 mL	3.4038 mL	6.8076 mL
	10 mM	0.3404 mL	1.7019 mL	3.4038 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (7.08 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (7.08 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	CP94253 hydrochloride is a potent and selective agonist of 5-HT _{1B} receptor (K _i = 2 nM in a radioligand binding assay). K _i values for 5-HT _{1A} , 5-HT _{1D} , 5-HT _{1C} and 5-HT ₂ receptors are 89, 49, 860, and 1600 nM respectively ^[1] . CP94253 hydrochloride is centrally active upon systemic administration in vivo ^[2] .
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REFERENCES

[1]. Koe et al (1992) Biochemical and behavioral studies of the 5-HT_{1B} receptor agonist, CP-94,253. Drug Dev.Res. 26 241

[2]. Knobelman DA, Kung HF, Lucki I. Regulation of extracellular concentrations of 5-hydroxytryptamine (5-HT) in mouse striatum by 5-HT(1A) and 5-HT(1B) receptors. J Pharmacol Exp Ther. 2000 Mar;292(3):1111-7

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

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