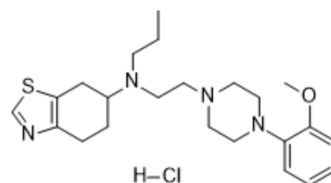


ST-836 hydrochloride

Cat. No.:	HY-15238A
CAS No.:	1415564-68-9
Molecular Formula:	C ₂₃ H ₃₅ ClN ₄ OS
Molecular Weight:	451.07
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

H₂O : 100 mg/mL (221.70 mM; Need ultrasonic)
DMSO : 50 mg/mL (110.85 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.2170 mL	11.0848 mL	22.1695 mL
	5 mM	0.4434 mL	2.2170 mL	4.4339 mL
	10 mM	0.2217 mL	1.1085 mL	2.2170 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (221.70 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.54 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (5.54 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.54 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ST-836 hydrochloride (compound 34) is a potent dopamine receptor ligand with K_i values of 4.5 nM, 132 nM for D₃ and D₂, respectively. ST-836 hydrochloride has the potential for Parkinson's disease^[1].

IC₅₀ & Target

D ₃ Receptor 4.5 nM (K _i)	D ₂ Receptor 132 nM (K _i)
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REFERENCES

[1]. Holger Stark, et al. Medicaments. WO2009056805A1.

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

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