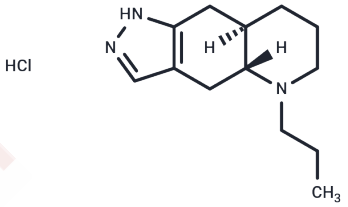
Data Sheet (Cat.No.T12606)

TargetMol

Quinpirole Hydrochloride

Chemical Properties



CAS No. : 85798-08-9

Formula: C13H22ClN3

Molecular Weight: 255.79

Appearance: no data available

Storage: store at low temperature,keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Quinpirole Hydrochloride (LY 171555), as an agonist with high affinity for dopamine receptor D2/D3, has been widely used to study the function of dopamine receptor D2/D3 in humans and mice
Targets(IC50)	Dopamine Receptor
In vivo	Examined the functions of the DA D1 receptor (D1R) and DA D2 receptor (D2R) by intrastriatal injection of the D1R agonist SKF38393 and the D2R agonist quinpirole. At threshold doses, quinpirole (1.0μg/site) produce a dose-dependent increase in locomotor activity compared to vehicle injection， in 6-hydroxydopamine (6-OHDA)-lesioned and control rat[1].

Solubility Information

Solubility	H2O: 45.0 mg/mL (175.9 mM),Sonication is recommended. DMSO: 25.0 mg/mL (97.7 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9095 mL	19.5473 mL	39.0946 mL
5 mM	0.7819 mL	3.9095 mL	7.8189 mL
10 mM	0.3909 mL	1.9547 mL	3.9095 mL
50 mM	0.0782 mL	0.3909 mL	0.7819 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Guo M, et al. Effects of intrastriatal injection of the dopamine receptor agonist SKF38393 and quinpirole on locomotor behavior in hemiparkinsonism rats. Behav Brain Res. 2021 Aug 6;411:113339.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481