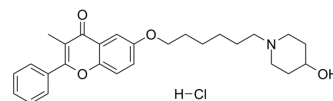


Sigma-LIGAND-1 hydrochloride

Cat. No.:	HY-101626A
CAS No.:	139652-86-1
Molecular Formula:	C ₂₇ H ₃₄ ClNO ₄
Molecular Weight:	472.02
Target:	Sigma Receptor
Pathway:	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

DMSO : 12.5 mg/mL (26.48 mM); ultrasonic and warming and heat to 60°C

Preparing Stock Solutions	Solvent		Mass		
	Concentration	1 mg	5 mg	10 mg	
1 mM	2.1186 mL	10.5928 mL	21.1855 mL		
5 mM	0.4237 mL	2.1186 mL	4.2371 mL		
10 mM	0.2119 mL	1.0593 mL	2.1186 mL		

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

BIOLOGICAL ACTIVITY

Description

Sigma-LIGAND-1 hydrochloride is a selective sigma receptor ligand with an IC₅₀s of 16 nM, 19 nM at the DTG site and the PPP site, respectively. Sigma-LIGAND-1 hydrochloride has a K_i of 4000 nM at the dopamine D₂ receptor^[1].

IC₅₀ & Target

IC₅₀: 16 nM (DTG site of sigma receptor), 19 nM (PPP site of sigma receptor)^[1]
K_i: 4000 nM (Dopamine D₂ receptor)^[1]

In Vivo

Administration of Sigma-LIGAND-1 hydrochloride reverseS amphetamine-induced hyperlocomotion in mice, a behavioral model sensitive to antipsychotic compounds. Sigma-LIGAND-1 hydrochloride and its structural analogues have the potential antipsychotic activity^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Erickson RH, et al. (Aminoalkoxy)chromones. Selective sigma receptor ligands. J Med Chem. 1992 May 1;35(9):1526-35.

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

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