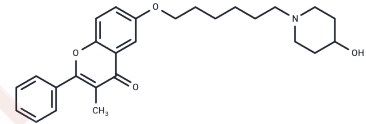


Sigma-LIGAND-1

Chemical Properties

CAS No. :	139652-01-0
Formula:	C ₂₇ H ₃₃ N ₂ O ₄
Molecular Weight:	435.56
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Sigma-LIGAND-1 is a selective Sigma Receptor ligand with IC ₅₀ values of 16 nM and 19 nM at the DTG site and the PPP site, respectively, and a K _i of 4000 nM at the dopamine D ₂ receptor.
Targets(IC ₅₀)	Sigma receptor
In vivo	Sigma-LIGAND-1 administration reverses amphetamine-induced hyperlocomotion in mice, a behavioral model sensitive to antipsychotic compounds [1].

Solubility Information

Solubility	DMSO: 90 mg/mL (206.63 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2959 mL	11.4795 mL	22.9589 mL
5 mM	0.4592 mL	2.2959 mL	4.5918 mL
10 mM	0.2296 mL	1.1479 mL	2.2959 mL
50 mM	0.0459 mL	0.2296 mL	0.4592 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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