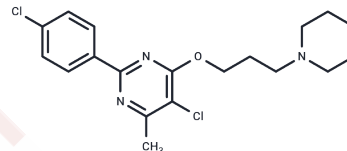


Sigma-1 receptor antagonist 1

Chemical Properties

CAS No. :	1639220-19-1
Formula:	C ₁₉ H ₂₃ Cl ₂ N ₃ O
Molecular Weight:	380.31
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-1 receptor antagonist 1 is an effective and selective antagonist of sigma-1 receptor. Sigma-1 receptor antagonist 1 exhibits antineuropathic pain activity and can be used in the treatment of neuropathic pain studies.
Targets(IC50)	Sigma receptor
In vitro	Sigma-1 receptor antagonist 1 exhibits a high binding affinity to σ 1R receptor with K_i of 1.06 nM and good σ -1/2 selectivity (1344-fold)[1].
In vivo	In mice formalin model and rats CCI models of neuropathic pain, Sigma-1 receptor antagonist 1 exerts dose-dependent antinociceptive effects[1].

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble), 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	2.6294 mL	13.1472 mL	26.2943 mL
5 mM	0.5259 mL	2.6294 mL	5.2589 mL
10 mM	0.2629 mL	1.3147 mL	2.6294 mL
50 mM	0.0526 mL	0.2629 mL	0.5259 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

Lan Y, et al. Synthesis and biological evaluation of novel sigma-1 receptor antagonists based on pyrimidine scaffold as agents for treating neuropathic pain. J Med Chem. 2014 Dec 26;57(24):10404-23.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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