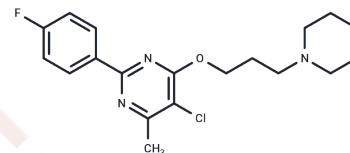


Sigma-1 receptor antagonist 3

Chemical Properties

CAS No. :	1639220-17-9
Formula:	C ₁₉ H ₂₃ ClFN ₃ O
Molecular Weight:	363.86
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Sigma-1 receptor antagonist 3 is a more potent and selective antagonist of Sigma-1 (σ_1) receptor ($K_i = 1.14$ nM) than σ_2 receptor ($K_i = 1239$ nM). Sigma-1 receptor antagonist 3 inhibits Human Ether-a-go-go-Related Gene (hERG, $IC_{50} = 1.54$ μ M)
Targets(IC_{50})	Potassium Channel, Sigma receptor

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	2.7483 mL	13.7415 mL	27.4831 mL
5 mM	0.5497 mL	2.7483 mL	5.4966 mL
10 mM	0.2748 mL	1.3742 mL	2.7483 mL
50 mM	0.055 mL	0.2748 mL	0.5497 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

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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