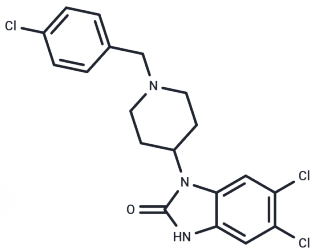
Data Sheet (Cat.No.T4407)

TargetMol

SR17018

Chemical Properties



CAS No. : 2134602-45-0

Formula: C19H18Cl3N3O

Molecular Weight: 410.72

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	SR17018, a mu-opioid receptor (MOR) agonist, binds with GTPγS and has an EC50 of 97 nM.
Targets(IC50)	Opioid Receptor
In vitro	SR17018 acts as an agonist at the mu-opioid receptor (MOR), exhibiting binding affinity with GTPγS, demonstrated by an EC50 value of 97 nM. It does not significantly induce βarrestin2 recruitment to the MOR at concentrations below 10 μM, suggesting its mechanism of action primarily involves signaling through G proteins rather than βarrestin2 pathways.

Solubility Information

Solubility	DMSO: 4.11 mg/mL (10 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4347 mL	12.1737 mL	24.3475 mL
5 mM	0.4869 mL	2.4347 mL	4.8695 mL
10 mM	0.2435 mL	1.2174 mL	2.4347 mL
50 mM	0.0487 mL	0.2435 mL	0.4869 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

Schmid CL,etal.Bias Factor and Therapeutic Window Correlate to Predict Safer Opioid Analgesics.Cell. 2017 Nov 16; 171(5):1165-1175.

Zhuang Y, Wang Y, He B, et al. Molecular recognition of morphine and fentanyl by the human μ-opioid receptor. Cell. 2022, 185(23): 4361-4375. e19.

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