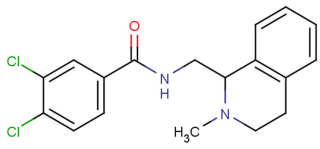
Data Sheet (Cat.No.T10593)

TargetMol
A DRUG SCREENING EXPERT

BPR1M97

Chemical Properties



CAS No.:	2059904-66-2
Formula:	C18H18Cl2N2O
Molecular Weight:	349.25
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	BPR1M97 is a dual-acting mu-opioid receptor (MOP) and nociceptin-orphanin FQ peptide (NOP) receptor agonist (Kis: 1.8 and 4.2 nM) with blood-brain barrier penetration. It produces potent antinociceptive effects.
Targets(IC_{50})	MOP: (ki) 1.8 nM NOP: 4.2 nM
In vivo	In a murine model of cancer pain, BPR1M97 (1.8 mg/kg; s.c.; once) demonstrates antinociception.

Solubility Information

Solubility	DMSO: 250 mg/mL (715.82 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.863 mL	14.316 mL	28.633 mL
5 mM	0.573 mL	2.863 mL	5.727 mL
10 mM	0.286 mL	1.432 mL	2.863 mL
50 mM	0.057 mL	0.286 mL	0.573 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Chao PK, et al. BPR1M97, a dual mu opioid receptor/nociceptin-orphanin FQ peptide receptor agonist, producespotent antinociceptive effects with safer properties than morphine. Neuropharmacology. 2019 Jul 3:107678.

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