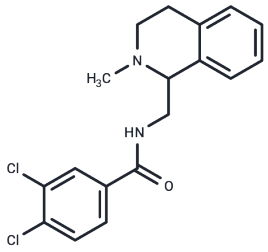
Data Sheet (Cat.No.T10593)

BPR1M97

Chemical Properties



CAS No. :	2059904-66-2
Formula:	C18H18Cl2N2O
Molecular Weight:	349.25
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	BPR1M97 is a mu opioid receptor (MOP) and neuropeptide-orphin FQ (NOP) receptor agonist with blood-brain barrier permeability and potency, with Kis values of 1.8 nM for MOP and 4.2 nM for NOP.BPR1M97 exhibits anti-injurious effects and antinociceptive effects.
Targets(IC50)	Opioid Receptor
In vivo	In a murine model of cancer pain, BPR1M97 (1.8 mg/kg; s.c.; once) demonstrates antinociception.[1]

Solubility Information

Solubility	DMSO: 225 mg/mL (644.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (14.32 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8633 mL	14.3164 mL	28.6328 mL
5 mM	0.5727 mL	2.8633 mL	5.7266 mL
10 mM	0.2863 mL	1.4316 mL	2.8633 mL
50 mM	0.0573 mL	0.2863 mL	0.5727 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

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.