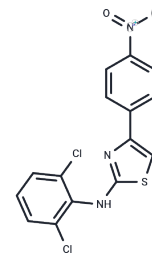


BMS-986121

Chemical Properties

CAS No. : 313671-26-0
Formula: C₁₅H₉Cl₂N₃O₂S
Molecular Weight: 366.22
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	BMS-986121 is a selective positive allosteric modulator (PAM) of the μ opioid receptor with analgesic effects.
Targets(IC50)	Opioid Receptor
In vitro	<p>Method: In CHO-μ cells, BMS-986121 (1 μM-1 mM) was used to evaluate its effect on low-concentration endomorphin-I-induced β-arrestin recruitment and the enhancement of forskolin-stimulated adenylyl cyclase inhibition. At a concentration of 100 μM, its impact on the potency of endomorphin-I and leu-enkephalin in inhibiting cAMP accumulation was measured.</p> <p>Results: BMS-986121 significantly enhanced the β-arrestin recruitment and inhibitory effects of endomorphin-I. At 100 μM, BMS-986121 increased the potency of endomorphin-I and leu-enkephalin by approximately 4-fold and 6-fold, respectively.[1]</p>

Solubility Information

Solubility	DMSO: 80 mg/mL (218.45 mM), 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	2.7306 mL	13.653 mL	27.306 mL
5 mM	0.5461 mL	2.7306 mL	5.4612 mL
10 mM	0.2731 mL	1.3653 mL	2.7306 mL
50 mM	0.0546 mL	0.2731 mL	0.5461 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

- Burford NT, et al. Discovery of positive allosteric modulators and silent allosteric modulators of the μ -opioid receptor. *Proc Natl Acad Sci U S A*. 2013;110(26):10830-10835.
- Bisignano P, et al. Ligand-Based Discovery of a New Scaffold for Allosteric Modulation of the μ -Opioid Receptor. *J Chem Inf Model*. 2015;55(9):1836-1843.
- Król W, Machelak W, Zielińska M. Positive allosteric modulation of μ -opioid receptor - A new possible approach in the pain management? *Biochem Pharmacol*. 2025 Feb;232:116686.

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