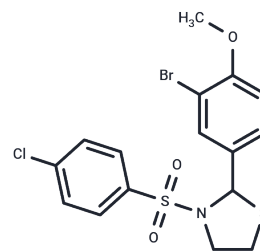


BMS-986122

Chemical Properties

CAS No. : 313669-88-4
 Formula: C₁₆H₁₅BrClNO₃S₂
 Molecular Weight: 448.78
 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-986122 (BMS 986122) is a positive allosteric modulator of μ -opioid receptors that increases β -arrestin recruitment stimulated by endomorphin 1 in U2OS-OPRM1 human osteosarcoma cells expressing μ -opioid receptors (EC ₅₀ = 3 μ M).
Targets(IC ₅₀)	Opioid Receptor

Solubility Information

Solubility	DMSO: 100 mg/mL (222.83 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (7.35 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2283 mL	11.1413 mL	22.2826 mL
5 mM	0.4457 mL	2.2283 mL	4.4565 mL
10 mM	0.2228 mL	1.1141 mL	2.2283 mL
50 mM	0.0446 mL	0.2228 mL	0.4457 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.

Livingston KE, Traynor JR. Disruption of the Na⁺ ion binding site as a mechanism for positive allosteric modulation of the mu-opioid receptor. Proc Natl Acad Sci U S A. 2014 Dec 23;111(51):18369-74. doi: 10.1073/pnas.1415013111. PubMed PMID: 25489080; PubMed Central PMCID: PMC4280615.

Burford NT, Clark MJ, Wehrman TS, Gerritz SW, Banks M, O'Connell J, Traynor JR, Alt A. Discovery of positive allosteric modulators and silent allosteric modulators of the μ -opioid receptor. Proc Natl Acad Sci U S A. 2013 Jun 25;110(26):10830-5. doi: 10.1073/pnas.1300393110. PubMed PMID: 23754417; PubMed Central PMCID: PMC3696790.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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