BMS-986187

Cat. No.: HY-120613

CAS No.: 684238-37-7

Molecular Formula: $C_{31}H_{34}O_4$

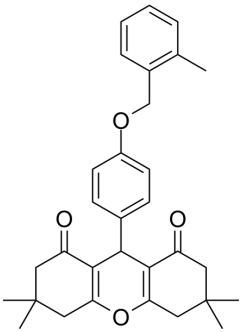
Molecular Weight: 470.6

Target: Opioid Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (53.12 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1249 mL	10.6247 mL	21.2495 mL
	5 mM	0.4250 mL	2.1249 mL	4.2499 mL
	10 mM	0.2125 mL	1.0625 mL	2.1249 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

BMS-986187 is an δ-opioid receptor-selective positive allosteric modulator (PAM) with an EC_{50} of 0.03 μM and a pK_B of 6.02 (-1 μM). BMS-986187 has no observable PAM activity at the μ-receptor (EC_{50}=3 μM)[1].

In Vitro

BMS-986187 (1 nM-100 uM) produces little or no activity in agonist mode, but in PAM mode (in the presence of an EC_{20} of leu-enkephalin (in CHO-OPRD1 cells) or endomorphin 1 (in CHO-OPRM1 cells)) produces a response with an EC_{50} of 48 nM in CHO-OPRD1 cells and 2 μM in CHO-OPRM1 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Neil T Burford, et al. Discovery, synthesis, and molecular pharmacology of selective positive allosteric modulators of the δ-opioid receptor. J Med Chem. 2015 May 28;58(10):4220-9.

Caution: Product has not been fully validated for medical applications. For research use only.

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