CB2R PAM

Cat. No.: HY-131004

CAS No.: 2244579-87-9

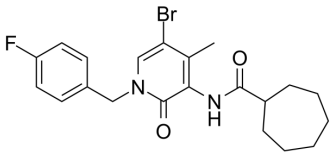
Molecular Formula: $C_{21}H_{24}BrFN_2O_2$

Molecular Weight: 435.33

Target: Cannabinoid 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 : 50 mg/mL (114.86 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2971 mL	11.4855 mL	22.9711 mL
	5 mM	0.4594 mL	2.2971 mL	4.5942 mL
	10 mM	0.2297 mL	1.1486 mL	2.2971 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (5.74 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

CB2R PAM is an orally active cannabinoid type-2 receptors (CB2Rs) positive allosteric modulator. CB2R PAM displays antinociceptive activity in vivo in an experimental mouse model of neuropathic pain[1].

IC_{50} & Target

cannabinoid type-2 receptors

In Vitro

CB2R PAM (100 nM) significantly enhances the ability of CP55940 and 2-AG, but not of AEA, to stimulate [35S]GTPγS binding to CB2Rs[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

CB2R PAM (1-20 mg/kg; p.o.) displays antinociceptive activity[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male CD-1 albino mice (Oxaliplatin-induced neuropathic pain model)[1]
Dosage:	1, 5, 10, 20 mg/kg
Administration:	P.o.
Result:	Significantly increased licking latency in the animals starting from 5 mg/kg.

REFERENCES

[1]. Gado F, et al. Identification of the First Synthetic Allosteric Modulator of the CB2 Receptors and Evidence of Its Efficacy for Neuropathic Pain Relief. J Med Chem. 2019;62(1):276-287.

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