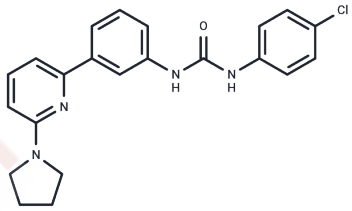
Data Sheet (Cat.No.T28468)

TargetMol

PSNCBAM-1

Chemical Properties



CAS No. : 877202-74-9

Formula: C22H21ClN4O

Molecular Weight: 392.88

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	PSNCBAM-1 (PSNCBAM 1) is a CB1 receptor negative allosteric modulator (EC50 = 0.1 μM) with hypophagic effects in vivo. PSNCBAM-1 can be used for obesity studies.
Targets(IC50)	Cannabinoid Receptor

Solubility Information

Solubility	DMSO: 55 mg/mL (139.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5453 mL	12.7265 mL	25.4531 mL
5 mM	0.5091 mL	2.5453 mL	5.0906 mL
10 mM	0.2545 mL	1.2727 mL	2.5453 mL
50 mM	0.0509 mL	0.2545 mL	0.5091 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

Wang X, et al. Effects of the allosteric antagonist 1-(4-chlorophenyl)-3-[3-(6-pyrrolidin-1-ylpyridin-2-yl)phenyl] urea (PSNCBAM-1) on CB1 receptor modulation in the cerebellum. Mol Pharmacol. 2011 Apr;79(4):758-67.
Horswill JG, et al. PSNCBAM-1, a novel allosteric antagonist at cannabinoid CB1 receptors with hypophagic effects in rats. Br J Pharmacol. 2007 Nov;152(5):805-14.
Cawston EE, et al. Real-time characterization of cannabinoid receptor 1 (CB1) allosteric modulators reveals novel mechanism of action. Br J Pharmacol. 2013 Oct;170(4):893-907.
German N, et al. Diarylureas as allosteric modulators of the cannabinoid CB1 receptor: structure-activity relationship studies on 1-(4-chlorophenyl)-3-{3-[6-(pyrrolidin-1-yl)pyridin-2-yl]phenyl}urea (PSNCBAM-1). J Med Chem. 2014 Sep 25;57(18):7758-69.

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