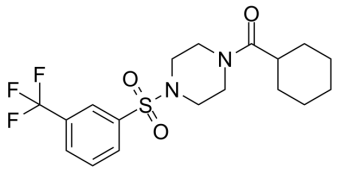
CB1R antagonist 1

Cat. No.:	HY-150067
CAS No.:	334668-69-8
Molecular Formula:	$C_{18}H_{23}F_3N_2O_3S$
Molecular Weight:	404.45
Target:	Cannabinoid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (247.25 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4725 mL	12.3625 mL	24.7249 mL
	5 mM	0.4945 mL	2.4725 mL	4.9450 mL
	10 mM	0.2472 mL	1.2362 mL	2.4725 mL

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

BIOLOGICAL ACTIVITY

Description

CB1R Allosteric modulator 5, a selective cannabinoid-1 receptor (CB1R) inverse agonist with an IC_{50} value of 4.2 μM and EC_{50} value of ⊠10 μM. CB1R Allosteric modulator 5 can be used for the research of metabolic and obesity[1].

IC_{50} & Target

hCB1-R 4.2 μM (IC_{50})	hCB1-R 10 μM (EC50)

In Vitro

CB1R Allosteric modulator 5 has cannabinoid-1 receptor (CB1R) activity with an IC_{50}value of 4.2 μM and EC_{50} value of ⊠10 μM[1].

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

REFERENCES

[1]. Petr Vachal, et al. 1-Sulfonyl-4-acylpiperazines as selective cannabinoid-1 receptor (CB1R) inverse agonists for the treatment of obesity. J Med Chem. 2009 Apr

23;52(8):2550-8

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