CYM 9484

Cat. No.: HY-107735

CAS No.: 1383478-94-1

Molecular Formula: $C_{27}H_{31}N_3O_3S_2$

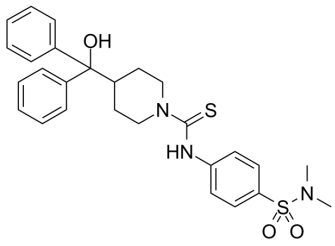
Molecular Weight: 509.68

Target: Neuropeptide Y Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50.97 mg/mL (100.00 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9620 mL	9.8101 mL	19.6202 mL
	5 mM	0.3924 mL	1.9620 mL	3.9240 mL
	10 mM	0.1962 mL	0.9810 mL	1.9620 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (4.08 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.08 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.08 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CYM 9484 is a selective and highly potent neuropeptide Y (NPY) Y2 receptor antagonist with an IC_{50} value of 19 nM[1].

IC_{50} & Target

NPY Y_2 receptor
19 nM (IC_{50})

In Vitro

SF-11 is a selective, brain-penetrant NPY Y2 receptor antagonist with an IC_{50} value of 190 nM. Systematically explore the SAR of the hit molecule SF-11 that leads to the identification of selective and highly potent small molecule NPY Y2 receptor

antagonist CYM 9484 (Compound 16). CYM 9484 is 10-fold more potent than the hit molecule SF-11. CYM 9484 is prepared by the coupling of α,α-diphenylpiperidino-4-methanol with a variety of aryl isothiocyanates[1].

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

REFERENCES

[1]. Mittapalli GK, et al. Synthesis and SAR of selective small molecule neuropeptide Y Y2 receptor antagonists. Bioorg Med Chem Lett. 2012 Jun 15;22(12):3916-20.

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