Orexin 2 Receptor Agonist

Cat. No.: HY-19320

CAS No.: 1796565-52-0

Molecular Formula: $C_{32}H_{34}N_4O_5S$

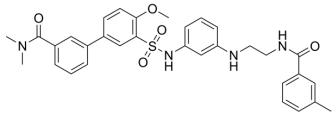
Molecular Weight: 586.7

Target: Orexin Receptor (OX 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 : ≥ 32 mg/mL (54.54 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.7044 mL	8.5222 mL	17.0445 mL
5 mM	0.3409 mL	1.7044 mL	3.4089 mL
10 mM	0.1704 mL	0.8522 mL	1.7044 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: ≥ 2.5 mg/mL (4.26 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.26 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Orexin 2 Receptor Agonist is a potent selective OX2R agonist with an EC_{50} of 23 nM[1].

IC_{50} & Target

OX_2 Receptor

In Vitro

Orexin 2 Receptor Agonist replaces Orexin-A to bind to hOX1R and hOX2R in a concentration-dependent manner in CHO cells overexpressing hOX1R and HEK-293 cells overexpressing hOX2R with K_i values of 0.14 μM and 0.77 μM, respectively[1].

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

REFERENCES

[1]. Nagahara T, et al. Design and Synthesis of Non-Peptide, Selective Orexin Receptor 2 Agonists. J Med Chem. 2015 Oct 22;58(20):7931-7.

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