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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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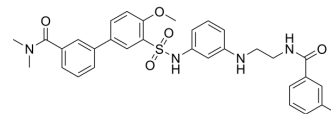
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Orexin 2 Receptor Agonist

Cat. No.:	HY-19320
CAS No.:	1796565-52-0
Molecular Formula:	C ₃₂ H ₃₄ N ₄ O ₅ S
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.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

- 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
- 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 EC₅₀ of 23 nM^[1].

IC₅₀ & Target

OX₂ 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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