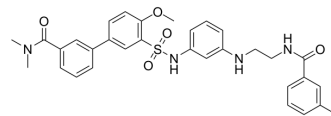


Orexin 2 Receptor Agonist

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	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 32 mg/mL (54.54 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		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

- 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 (EC₅₀ on OX₂R is 23 nM) and OX₂R-selective (OX₁R/OX₂R EC₅₀ ratio is 70) agonist. IC₅₀ value: 23 nM (EC₅₀) Target: Orexin 2 Receptor Orexin 2 Receptor Agonist shows not only potent activity but also high selectivity for OX₂R over OX₁R. In CHO cells overexpressing hOX₁R and HEK-293 cells overexpressing hOX₂R, compound 26 displaced [¹²⁵I]orexin-A in a concentration dependent manner: 26 bound to hOX₂R and hOX₁R with K_i of 0.14 and 0.77 μM, respectively.[1]

REFERENCES

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

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