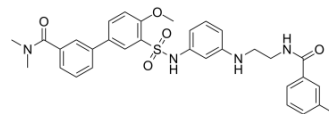


## Orexin 2 Receptor Agonist

<b>Cat. No.:</b>	HY-19320		
<b>CAS No.:</b>	1796565-52-0		
<b>Molecular Formula:</b>	C <sub>32</sub> H <sub>34</sub> N <sub>4</sub> O <sub>5</sub> S		
<b>Molecular Weight:</b>	586.7		
<b>Target:</b>	Orexin Receptor (OX Receptor)		
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling		
<b>Storage:</b>	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 (EC<sub>50</sub> on OX<sub>2</sub>R is 23 nM) and OX<sub>2</sub>R-selective (OX<sub>1</sub>R/OX<sub>2</sub>R EC<sub>50</sub> ratio is 70) agonist. IC<sub>50</sub> value: 23 nM (EC<sub>50</sub>) Target: Orexin 2 Receptor Orexin 2 Receptor Agonist shows not only potent activity but also high selectivity for OX<sub>2</sub>R over OX<sub>1</sub>R. In CHO cells overexpressing hOX<sub>1</sub>R and HEK-293 cells overexpressing hOX<sub>2</sub>R, compound 26 displaced [<sup>125</sup>I]orexin-A in a concentration dependent manner: 26 bound to hOX<sub>2</sub>R and hOX<sub>1</sub>R with K<sub>i</sub> of 0.14 and 0.77 μM, respectively.[1]

### REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA