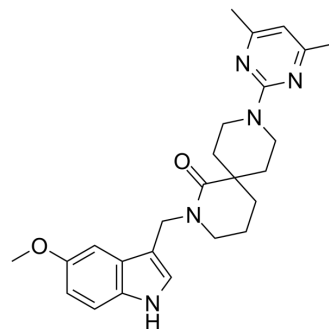


## Orexin receptor antagonist 2

<b>Cat. No.:</b>	HY-136922		
<b>CAS No.:</b>	1457940-75-8		
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>31</sub> N <sub>5</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	433.55		
<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 : 62.5 mg/mL (144.16 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3065 mL	11.5327 mL	23.0654 mL
	5 mM	0.4613 mL	2.3065 mL	4.6131 mL
	10 mM	0.2307 mL	1.1533 mL	2.3065 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: ≥ 2.08 mg/mL (4.80 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (4.80 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Orexin receptor antagonist 2 (compound 30) is a potent orexin receptor antagonist with pK<sub>s</sub> of 7.69 and 9.78. Orexin receptor antagonist 2 has the potential for the research of insomnia<sup>[1]</sup>.

### REFERENCES

- [1]. Betschart C, et al. Identification of a novel series of orexin receptor antagonists with a distinct effect on sleep architecture for the treatment of insomnia. J Med Chem. 2013;56(19):7590-7607.

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

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