YNT-185

Cat. No.:	HY-136181A	
CAS No.:	1804978-81-1	
Molecular Formula:	C ₃₃ H ₃₇ N ₅ O ₅ S	
Molecular Weight:	615.74	
Target:	Orexin Receptor (OX Receptor)	
Pathway:	GPCR/G Protein; Neuronal Signaling	
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)	

SOLVENT & SOLUBILITY

In Vitro DMSO	DMSO : 100 mg/mL (162.41 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	1.6241 mL	8.1203 mL	16.2406 mL	
		5 mM	0.3248 mL	1.6241 mL	3.2481 mL	
		10 mM	0.1624 mL	0.8120 mL	1.6241 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.06 mM); Clear solution 					

BIOLOGICAL ACTIV	/ITY				
Description	YNT-185 is a nonpeptide, selective orexin type-2 receptor (OX2R) agonist, with EC ₅₀ s of 0.028 and 2.75 μM for OX2R and OX1R, respectively. YNT-185 ameliorates narcolepsy-cataplexy symptoms in mouse models ^{[1][2]} .				
In Vivo	YNT-185 (20-40 mg/kg; i.p.) increases wakefulness in mice ^[2] . YNT-185 (300 nmol; i.c.v.) significantly increases wake time for 3 hours in a dose-dependent manner, accompanied by a decrease in NREM sleep time, in wild-type mice but not in OXRDKO mice ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
	Animal Model: Dosage:	Male wild-type C57BL/6J mice ^[2] 20, 40 mg/kg			
	Administration:	l.p.			

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Product Data Sheet

Result:

REFERENCES

[1]. Nagahara T, et al. Design and Synthesis of Non-Peptide, Selective Orexin Receptor 2 Agonists. J Med Chem. 2015;58(20):7931-7937.

[2]. Irukayama-Tomobe Y, et al. Nonpeptide orexin type-2 receptor agonist ameliorates narcolepsy-cataplexy symptoms in mouse models. Proc Natl Acad Sci U S A. 2017;114(22):5731-5736.

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

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