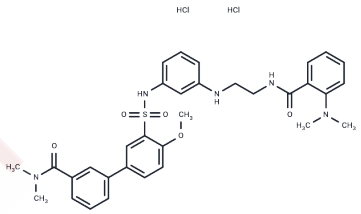
Data Sheet (Cat.No.T37112)

TargetMol

YNT-185 dihydrochloride

Chemical Properties



CAS No. : 1804978-82-2

Formula: C33H39Cl2N5O5S

Molecular Weight: 688.67

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Potent and selective orexin OX2 receptor agonist (EC50 = 28 nM at human OX2 expressed in CHO cells). Displays approximately 100-fold selectivity for OX2 over OX1 (EC50 = 2.75 μM at human OX1 expressed in CHO cells). Depolarizes OX2-expressing histaminergic neurons in mouse brain slices. Increases wake time in wild type mice. Suppresses cataplexy-like symptoms in OX knockout mice.
Targets(IC50)	Others,OX Receptor

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4521 mL	7.2604 mL	14.5207 mL
5 mM	0.2904 mL	1.4521 mL	2.9041 mL
10 mM	0.1452 mL	0.726 mL	1.4521 mL
50 mM	0.029 mL	0.1452 mL	0.2904 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Nagahara et al (2015) Design and synthesis of non-peptide, selective orexin receptor 2 agonists. J.Med.Chem. 58 7931 PMID:26267383

Irukayama-Tomobe et al (2017) Nonpeptide orexin type-2 receptor agonist ameliorates narcolepsy-cataplexy symptoms in mouse models. Proc.Natl.Acad.Sci.USA. 144 5731 PMID:28507129

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