
Product Data Sheet

Product Name: YNT 185
Cat. No.: GC50559

Chemical Properties

Cas. No. 1804978-82-2

SMILES COC1=C(S(=O)(=O)NC2=CC(NCCNC(C3=C(N(C)C)C=CC=C3)=O)=CC=C2)=O)C=C(C4=CC(C(N(C)C)=O)=CC=C4)C=C1.Cl.Cl

Formula $C_{33}H_{37}N_5O_5S \cdot 2HCl$ M.Wt 688.66

Solubility DMSO: 68.87mg/ml; water: 68.87mg/ml Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure

Background

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.

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

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

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