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Certificate of Analysis

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Product Name: YNT 185

Catalog No.: 6739 Batch No.: 1

CAS Number: 1804978-82-2

IUPAC Name:

3'-[[[3-[[2-([2-(Dimethylamino)benzoyl]amino]ethyl]amino]phenyl]amino]sulfonyl]-4'-methoxy-N,N-dimethyl-[1,1'biphenyl]-3-carboxamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C₃₃H₃₇N₅O₅S.2HCI.2H₂O 724.69 Off-white solid water to 100 mM DMSO to 100 mM

Store at -20°C

Storage:

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis: Shows 98.1% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Chlorine Theoretical 54.69 5.98 9.66 9.78 Found 55.19 5.72 9.48 8.97

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

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Print Date: Mar 26th 2020

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3'-[[[3-[[2-[[2-(Dimethylamino)benzoyl]amino]ethyl]amino]phenyl]amino]sulfonyl]-4'-methoxy-*N*,*N*-dimethyl-[1,1'-biphenyl]-3-carboxamide dihydrochloride

Description:

Potent and selective orexin OX_2 receptor agonist (EC₅₀ = 28 nM at human OX_2 expressed in CHO cells). Displays approximately 100-fold selectivity for OX_2 over OX_1 (EC₅₀ = 2.75 μ M at human OX_1 expressed in CHO cells). Depolarizes OX_2 -expressing histaminergic neurons in mouse brain slices. Increases wake time in wild type mice. Suppresses cataplexy-like symptoms in OX knockout mice.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₃H₃₇N₅O₅S.2HCl.2H₂O Batch Molecular Weight: 724.69 Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

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.

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

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