

Product Data Sheet

Product Name: DREADD agonist 21

Cat. No.: GC30849

Chemical Properties

Cas. No. 56296-18-5

SMILES C12=CC=CC=C1NC3=CC=CC=C3C(N4CCNCC4)=N2

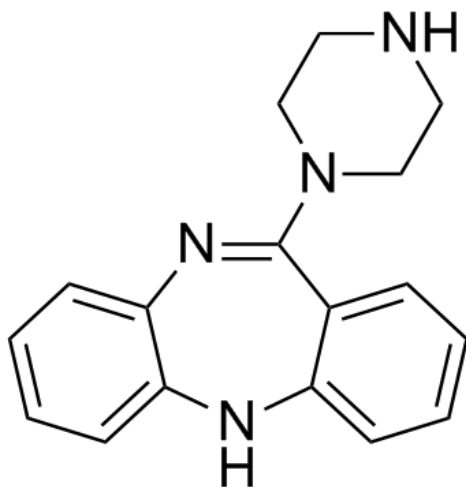
Formula $C_{17}H_{18}N_4$ M.Wt 278.35

Solubility DMSO : ≥ 78 mg/mL (280.22 mM) Storage Store at -20°C

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

Structure



Background

DREADD agonist 21 is a potent human muscarinic acetylcholine M3 receptors (hM3Dq) agonist ($\text{EC}_{50}=1.7$ nM).

DREADD agonist 21 is a potent human muscarinic acetylcholine M3 receptors (hM3Dq) agonist ($\text{EC}_{50}=1.7$ nM) and does not activate human M3 receptor (hM3). In addition to being inactive at hM3, DREADD agonist 21, a potent full agonist of hM3Dq ($\text{EC}_{50}=1.7$ nM), is only 3.5-fold selective for hM3Dq over H1, 40-fold selective over 5HT2A, 100-fold selective over 5HT2C, and 165-fold selective

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

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over $\alpha 1A$. DREADD agonist 21 shows high binding affinities to 5HT2A and 5HT2C serotonin receptor, $\alpha 1A$ adrenergic receptor, and H1 histamine receptor with K_i values of 66, 170, 280, and 6 nM, respectively[1].

[1]. Chen X, et al. The first structure-activity relationship studies for designer receptors exclusively activated by designer drugs. ACS Chem Neurosci. 2015 Mar 18;6(3):476-84.

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