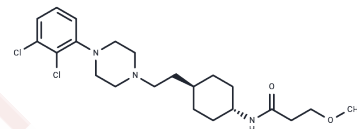


Dopamine D3 Receptor Agonist 13a

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2899250-94-1 |
| Formula: | C ₂₂ H ₃₃ Cl ₂ N ₃ O ₂ |
| Molecular Weight: | 442.42 |
| Storage: | Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|----------------------------|--|
| Description | Dopamine D3 receptor agonist 13a selectively targets the dopamine D3 receptor over dopamine D1, D2, and D4 receptors, with affinities (K _i values) of 0.14, 4,600, 2.85, and 756 nM, respectively. It also interacts with serotonin (5-HT) receptor subtypes 5-HT _{1A} , 5-HT _{2A} , 5-HT _{2B} , and 5-HT _{2C} , with K _i values of 6, 54, 1.47, and 252 nM, respectively. While acting as a partial agonist at dopamine D2 receptors (EC ₅₀ = 2.26 nM in a G protein recruitment assay), it serves as an antagonist at dopamine D3 receptors (IC ₅₀ = 4.62 nM). Additionally, Dopamine D3 receptor agonist 13a, at a dose of 3 mg/kg, has been shown to reduce cocaine self-administration in rats. |
| Targets(IC ₅₀) | 5-HT Receptor, Dopamine Receptor |

Solubility Information

| | |
|------------|---|
| Solubility | Ethanol: 3 mg/mL (6.78 mM), Sonication is recommended. DMF: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|-----------|
| 1 mM | 2.2603 mL | 11.3015 mL | 22.603 mL |
| 5 mM | 0.4521 mL | 2.2603 mL | 4.5206 mL |
| 10 mM | 0.226 mL | 1.1301 mL | 2.2603 mL |
| 50 mM | 0.0452 mL | 0.226 mL | 0.4521 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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