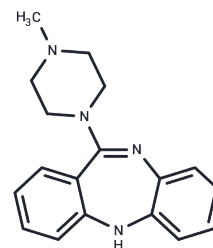


Deschloroclozapine

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 1977-07-7 |
| Formula: | C ₁₈ H ₂₀ N ₄ |
| Molecular Weight: | 292.38 |
| Appearance: | no data available |
| Storage: | store at low temperature |
| | Powder: -20°C for 3 years In solvent: -80°C for 1 year |



Biological Description

| | |
|----------------------------|--|
| Description | Deschloroclozapine, a metabolite of Clozapine, is a highly potent muscarinic DREADDs agonist that binds to DREADD receptor subtypes [hM3Dq] and [hM4Di] with K _i values of 6.3 nM and 4.2 nM, respectively. |
| Targets(IC ₅₀) | Serotonin Transporter |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 100 mg/mL (342.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 3.4202 mL | 17.101 mL | 34.2021 mL |
| 5 mM | 0.684 mL | 3.4202 mL | 6.8404 mL |
| 10 mM | 0.342 mL | 1.7101 mL | 3.4202 mL |
| 50 mM | 0.0684 mL | 0.342 mL | 0.684 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.

Reference

Phillips ST, et al. Binding of 5H-dibenzo[b,e][1,4]diazepine and chiral 5H-dibenzo[a,d]cycloheptene analogues of clozapine to dopamine and serotonin receptors. J Med Chem. 1994 Aug 19;37(17):2686-96.
 Yuji Nagai, et al. Deschloroclozapine: a potent and selective chemogenetic actuator enables rapid neuronal and behavioral modulations in mice and monkeys. bioRxiv.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481