

Product Name: DREADD agonist 21 dihydrochloride

Catalog No.: 6422

Batch No.: 2

CAS Number: 2250025-92-2

IUPAC Name: 11-(1-Piperazinyl)-5H-dibenzo[*b,e*][1,4]diazepine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₈N₄·2HCl·2½H₂O

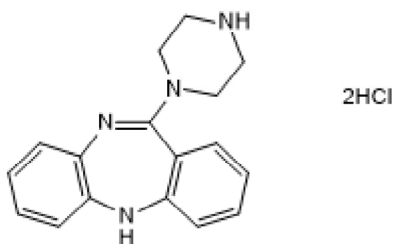
Batch Molecular Weight: 396.31

Physical Appearance: Yellow solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	51.52	6.36	14.14	17.89
Found	51.95	6.23	14.01	17.6

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

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Description:

DREADD agonist 21 dihydrochloride is a water soluble version of DREADD agonist 21 (Cat. No. 5548). Potent muscarinic DREADD agonist.

Physical and Chemical Properties:

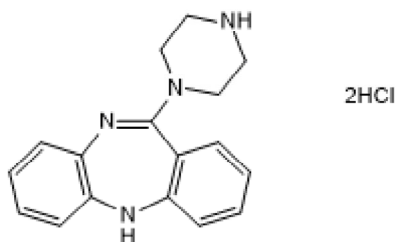
Batch Molecular Formula: C₁₇H₁₈N₄·2HCl·2½H₂O

Batch Molecular Weight: 396.31

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at RT

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Chen et al (2015) The first structure-activity relationship studies for designer receptors exclusively activated by designer drugs. ACS Chem.Neurosci. **18** 476. PMID: 25587888.

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