

Product Name: JHU 37152

Catalog No.: 7197

Batch No.: 1

CAS Number: 2369979-67-7

IUPAC Name: 8-Chloro-11-(4-ethylpiperazin-1-yl)-1-fluoro-5H-dibenzo[b,e][1,4]diazepine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₀ClFN₄·½H₂O

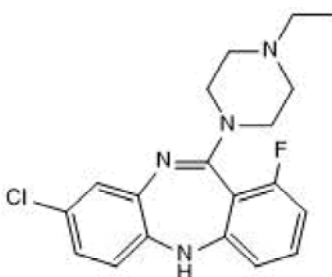
Batch Molecular Weight: 367.86

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	62.04	5.75	15.23
Found	62.28	5.74	15.14

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

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Description:

High affinity and highly potent activator of hM₃D_q and hM₄D_i DREADDs (K_i values are 1.8 nM and 8.7 nM for hM₃D_q and hM₄D_i in vitro, respectively; EC₅₀ values are 5 nM and 0.5 nM for hM₃D_q and hM₄D_i in vitro, respectively). Selectively displaces [³H]clozapine from DREADDs in vivo, but not from other clozapine binding sites. Inhibits locomotor activity in mice expressing hM₃D_q and hM₄D_i in D₁-expressing neurons. Brain penetrant in mice, rats and non-human primates. Please see product datasheet on www.tocris.com for full description.

Physical and Chemical Properties:

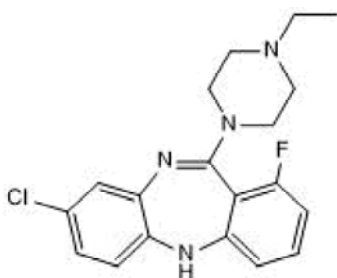
Batch Molecular Formula: C₁₉H₂₀ClFN₄·½H₂O

Batch Molecular Weight: 367.86

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Bonaventura et al (2019) High-potency ligands for DREADD imaging and activation in rodents and monkeys. *Nat.Commun.* **10** 4627. PMID: 31604917.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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.

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