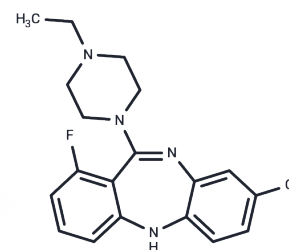


JHU37152

## Chemical Properties

CAS No. : 2369979-67-7  
 Formula: C<sub>19</sub>H<sub>20</sub>ClFN<sub>4</sub>  
 Molecular Weight: 358.84  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
*Actual storage temperature shall be subject to the COA.*



## Biological Description

Description	JHU37152 (JHU 37152) is a Designer Receptors Exclusively Activated by Designer Drug (DREADD) agonist with $K_i$ of 1.8 nM and 8.7 nM for human muscarinic acetylcholine M <sub>3</sub> receptors (hM <sub>3</sub> Dq) and hM <sub>4</sub> Di in vitro, respectively. And EC <sub>50</sub> values are 5 nM and 0.5 nM for hM <sub>3</sub> Dq and hM <sub>4</sub> Di in fluorescent and BRET-based assays in HEK-293 cells, respectively.
Targets(IC <sub>50</sub> )	AChR
In vitro	JHU 37152 is a potent DREADD agonist with high potency and efficacy in fluorescent and BRET-based assays in HEK-293 cells, whereas no responses are observed in untransfected HEK-293 cells
In vivo	JHU 37152 exhibits high in vivo DREADD potency. JHU37152 exhibits selective [ <sup>3</sup> H] clozapine displacement from DREADDs in brain tissue from WT and D1-DREADD mice

## Solubility Information

Solubility	DMSO: 72 mg/mL (200.65 mM), Sonication is recommended. Ethanol: 24 mg/mL (66.88 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.7868 mL	13.9338 mL	27.8676 mL
5 mM	0.5574 mL	2.7868 mL	5.5735 mL
10 mM	0.2787 mL	1.3934 mL	2.7868 mL
50 mM	0.0557 mL	0.2787 mL	0.5574 mL

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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.

### Reference

Bonaventura J , Eldridge M , Hu F , et al. High-potency ligands for DREADD imaging and activation in rodents and monkeys[J]. Nature Communications, 2019, 10(1).

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