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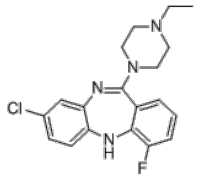
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	JHU37160
Cat. No.	:	PC-73159
CAS No.	:	2369979-68-8
Molecular Formula	:	$C_{19}H_{20}ClFN_4$
Molecular Weight	:	358.85
Target	:	Other Targets
Solubility	:	10 mM in DMSO



Biological Activity

JHU37160 is a high affinity, highly potent, BBB penetrant activator (agonist) of hM3Dq and hM4Di **DREADDs** with Ki 1.9 nM and 3.6 nM for hM3Dq and hM4Di in vitro.
JHU37152 selectively displaces [3H]clozapine from DREADDs in vivo, but not from other clozapine binding sites.
JHU37152 inhibits locomotor activity in mice expressing hM3Dq and hM4Di in D1-expressing neurons, increases hM3Dq-stimulated locomotion in rats expressing hM3Dq in TH-expressing neurons.
Designer receptors exclusively activated by designer drugs (DREADD) technology is a powerful chemogenetic approach used for neuromodulation in uninstrumented research animals.

References

Jordi Bonaventura, et al. ***Nat Commun.*** 2019 Oct 11;10(1):4627.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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