JHU37152

HY-131891		
2369979-67	-7	
C ₁₉ H ₂₀ ClFN ₄		
358.84		
mAChR		
GPCR/G Protein; Neuronal Signaling		
Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month
	2369979-67 C ₁₉ H ₂₀ ClFN ₄ 358.84 mAChR GPCR/G Pro Powder	2369979-67-7 C ₁₉ H ₂₀ ClFN ₄ 358.84 mAChR GPCR/G Protein; Neu Powder -20°C 4°C In solvent -80°C

®

MedChemExpress

SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
Prepari Stock S		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

BIOLOGICAL ACTIVITY				
Description	JHU37152 is a potent and brain-penetrant DREADD agonist, with EC ₅₀ s of 5 nM and 0.5 nM for hM3Dq and hM4Di DREADDs in HEK-293 cells, respectively. JHU37152 exhibits selective [³ H]Clozapine displacement from DREADDs and not from other Clozapine-binding sites in mice brain tissue ^[1] .			
IC ₅₀ & Target	EC50: 5 nM (hM3Dq DREADD); 0.5 nM (hM4Di DREADD) ^[1]			
In Vitro	JHU37152 displays high DREADD affinity, with K _i s of 1.8 nM and 8.7 nM for hM3Dq and hM4Di expressed in mouse brain sections ^[1] . JHU37152 (1-1000 nM) selectively displaces [³ H]Clozapine displacement from DREADDs and not from other Clozapine- binding sites ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	JHU37152 (0.1 mg/kg; i.p.) exhibits high DREADD occupancy in mice and rats ^[1] . JHU37152 (0.01-1 mg/kg; i.p.) selectively inhibits locomotor activity in D1-hM3Dq and D1-hM4Di mice without any significant locomotor effects observed in WT mice ^[1] .			

Product Data Sheet

H

CI

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Bonaventura J, et, al. High-potency ligands for DREADD imaging and activation in rodents and monkeys. Nat Commun. 2019 Oct 11;10(1):4627.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA