GNE0877

Cat. No.:	HY-15796		
CAS No.:	1374828-69	-9	
Molecular Formula:	$C_{14}H_{16}F_{3}N_{7}$		
Molecular Weight:	339.32		
Target:	LRRK2		
Pathway:	Autophagy		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
Preparing Stock Solutions	1 mM	2.9471 mL	14.7354 mL	29.4707 mL		
	Stock Solutions	5 mM	0.5894 mL	2.9471 mL	5.8941 mL	
		10 mM	0.2947 mL	1.4735 mL	2.9471 mL	
Plea	se refer to the so	lubility information to select the ap	propriate solvent.			
		one by one: 10% DMSO >> 40% PE ng/mL (6.13 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline		
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.13 mM); Clear solution					
		one by one: 10% DMSO >> 90% cor ng/mL (6.13 mM); Clear solution	n oil			

BIOLOGICAL ACTIV	
Description	GNE0877 is a highly selective, orally active and brain-penetrant LRRK2 inhibitor with an IC ₅₀ of 3 nM and a <i>K</i> _i of 0.7 nM. GNE0877 can be used for the research of neuroscience ^[1] .
IC ₅₀ & Target	IC50: 3 nM (LRRK2) ^[1]
In Vitro	GNE0877 (1 μM; 10-30 min) shows good cellular potency in human liver microsomes and hepatocytes ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Product Data Sheet

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	Cell Viability Assay ^[1]	
	Cell Line:	Human liver microsomes and hepatocytes
	Concentration:	1 μM
	Incubation Time:	10, 20 and 30 min
	Result:	Exibited low turnover and good vitro stability in human liver microsomes and hepatocytes with no glucuronidation.
n Vive	CNE0077 (10 and 50 mm	
n Vivo		/kg; i.p. once) inhibits LRRK2 Ser1292 autophosphorylation ^[1] . ntly confirmed the accuracy of these methods. They are for reference only.
In Vivo		/kg; i.p. once) inhibits LRRK2 Ser1292 autophosphorylation ^[1] . ntly confirmed the accuracy of these methods. They are for reference only. BAC transgenic mice expressing human LRRK2 protein with the G2019S Parkinson's
In Vivo	MCE has not independe	/kg; i.p. once) inhibits LRRK2 Ser1292 autophosphorylation ^[1] . ntly confirmed the accuracy of these methods. They are for reference only.
In Vivo	MCE has not independe Animal Model:	/kg; i.p. once) inhibits LRRK2 Ser1292 autophosphorylation ^[1] . ntly confirmed the accuracy of these methods. They are for reference only. BAC transgenic mice expressing human LRRK2 protein with the G2019S Parkinson's disease mutation ^[1]

CUSTOMER VALIDATION

- Hum Mol Genet. 2017 Jul 15;26(14):2747-2767.
- Programa Oficial de Doctorado en Biomedicina. Universidad de Granada. 5-Jul-2017.

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REFERENCES

[1]. Estrada AA, et al. Discovery of highly potent, selective, and brain-penetrant aminopyrazole leucine-rich repeat kinase 2 (LRRK2) small molecule inhibitors. J Med Chem. 2014 Feb 13;57(3):921-36.

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

Tel: 609-228-6898 Fax: 609-228-5909

9 E-mail: tech@MedChemExpress.com

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