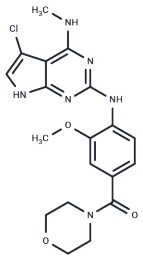
Data Sheet (Cat.No.T7155)

TargetMol

JH-II-127

Chemical Properties



CAS No. : 1700693-08-8

Formula: C19H21ClN6O3

Molecular Weight: 416.86

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	JH-II-127 is an oral inhibitor of leucine-rich repeat kinase 2 (LRRK2), targeting WT LRRK2, G2019S LRRK2, and A2016T LRRK2 with IC50 values of 6.6 nM, 2.2 nM, and 47.7 nM, respectively.
Targets(IC50)	LRRK2
In vivo	JH-II-127 (0.1-0.3 μM) inhibits phosphorylation of the serines at positions 910 and 935 of WT LRRK2 and LRRK2G2019S in vitro.?It also inhibits Ser935 phosphorylation in vivo in mouse brain, spleen, and kidney when administered at a dose of 30 mg/kg.

Solubility Information

Solubility	DMSO: 30 mg/mL (71.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.8 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3989 mL	11.9944 mL	23.9889 mL
5 mM	0.4798 mL	2.3989 mL	4.7978 mL
10 mM	0.2399 mL	1.1994 mL	2.3989 mL
50 mM	0.048 mL	0.2399 mL	0.4798 mL

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

Discovery of a Pyrrolopyrimidine (JH-II-127), a Highly Potent, Selective, and Brain Penetrant LRRK2 Inhibitor[J]. ACS Medicinal Chemistry Letters, 2015, 6(5):584-589.