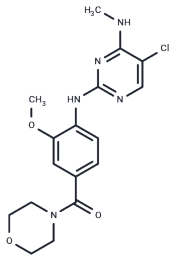
Data Sheet (Cat.No.T7196)

TargetMol

HG-10-102-01

Chemical Properties



CAS No. : 1351758-81-0

Formula: C17H20ClN5O3

Molecular Weight: 377.83

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	HG-10-102-01 is an inhibitor of leucine-rich repeat kinase 2 (LRRK2, IC50 of 20.3 nM).
Targets(IC50)	MNK,LRRK2
In vivo	HG-10-102-01 substantially inhibits Ser910 and Ser935 phosphorylation of both wild-type and G2019S mutant LRRK2 in cells.?When given intraperitoneally, HG-10-102-01 penetrates the blood-brain barrier and inhibits phosphorylation of LRRK2 in the brain as well as the kidney and spleen.

Solubility Information

Solubility	DMSO: 50 mg/mL (132.33 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 (5.29 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	2.6467 mL	13.2335 mL	26.4669 mL
5 mM	0.5293 mL	2.6467 mL	5.2934 mL
10 mM	0.2647 mL	1.3233 mL	2.6467 mL
50 mM	0.0529 mL	0.2647 mL	0.5293 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

Choi H G , Zhang J , Deng X , et al. Brain Penetrant LRRK2 Inhibitor[J]. ACS Medicinal Chemistry Letters, 2012, 3(8): 658-662.