

GNE0877

Chemical Properties

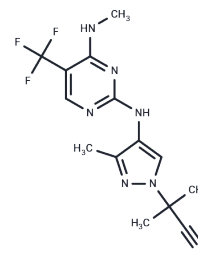
CAS No. : 1374828-69-9

Formula: C₁₄H₁₆F₃N₇

Molecular Weight: 339.32

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	GNE0877 (GNE 0877) is a highly effective and specific leucine-rich repeat kinase 2 (LRRK2) inhibitor (K _i : 0.7 nM).
Targets(IC ₅₀)	LRRK2
In vitro	Within BAC transgenic mice expressing human LRRK2 protein with the Parkinson's disease mutation G2019S, GNE-0877 effectively inhibits LRRK2 Ser1292 autophosphorylation. GNE-0877 demonstrates favorable oral bioavailability and brain penetrance.
In vivo	GNE-0877 significantly inhibits LRRK2 cellular activity (IC ₅₀ : 3 nM) and demonstrates low turnover in human liver microsomes and hepatocytes. Additionally, GNE-0877 acts as a reversible inhibitor of CYP1A2 (IC ₅₀ : 0.7 μM).

Solubility Information

Solubility	DMSO: 45 mg/mL (132.62 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9471 mL	14.7354 mL	29.4707 mL
5 mM	0.5894 mL	2.9471 mL	5.8941 mL
10 mM	0.2947 mL	1.4735 mL	2.9471 mL
50 mM	0.0589 mL	0.2947 mL	0.5894 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

Estrada AA, et al. J Med Chem. 2014, 57(3), 921-936.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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