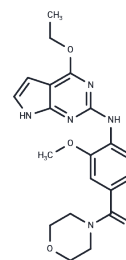


LRRK2 inhibitor 1

Chemical Properties

CAS No. :	1802525-61-6
Formula:	C ₂₀ H ₂₃ N ₅ O ₄
Molecular Weight:	397.43
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	LRRK2 inhibitor 1 is a selective and potent LRRK2 inhibitor with an IC ₅₀ of 13 nM. LRRK2 inhibitor 1 inhibits DCLK1 kinase with an IC ₅₀ value of 2.61 nM.
Targets(IC ₅₀)	CDK, LRRK2

Solubility Information

Solubility	DMSO: 70 mg/mL (176.13 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 (5.03 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5162 mL	12.5808 mL	25.1617 mL
5 mM	0.5032 mL	2.5162 mL	5.0323 mL
10 mM	0.2516 mL	1.2581 mL	2.5162 mL
50 mM	0.0503 mL	0.2516 mL	0.5032 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

Ding X, et al. Discovery of 4-ethoxy-7H-pyrrolo[2,3-d]pyrimidin-2-amines as potent, selective and orally bioavailable LRRK2 inhibitors. *Bioorg Med Chem Lett*. 2018 May 15;28(9):1615-1620.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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