

JH-X-119-01

Chemical Properties

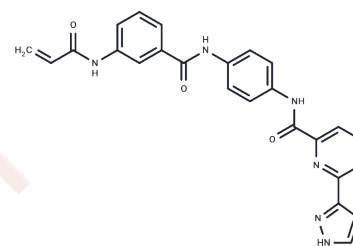
CAS No. : 2227368-54-7

Formula: C₂₅H₂₀N₆O₃

Molecular Weight: 452.46

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-X-119-01 is a highly potent and selective covalent inhibitor of IRAK-1 (Interleukin-1 Receptor-Associated Kinase 1).
Targets(IC50)	IRAK
In vitro	JH-X-119-01 exhibited cytotoxic activity at single digit micromolar concentrations in a panel of WM, DLBCL, and lymphoma cell lines expressing MYD88. Cotreatment of JH-X-119-01 with the BTK inhibitor ibrutinib resulted in synergistic killing effects in these systems.

Solubility Information

Solubility	DMSO: 12 mg/mL (26.52 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: 1 mg/mL (2.21 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	2.2101 mL	11.0507 mL	22.1014 mL
5 mM	0.442 mL	2.2101 mL	4.4203 mL
10 mM	0.221 mL	1.1051 mL	2.2101 mL
50 mM	0.0442 mL	0.221 mL	0.442 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

John M Hatcher, et al. ACS Med Chem Lett. 2020 Oct 9; 11(11):2238-2243.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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