

JH-VIII-157-02

Chemical Properties

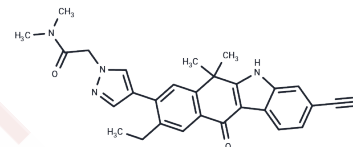
CAS No. : 1639422-97-1

Formula: C₂₈H₂₇N₅O₂

Molecular Weight: 465.55

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-VIII-157-02 is an inhibitor of ALK and inhibits echinoderm microtubule-associated protein-like 4-ALK (EML4-ALK) with IC ₅₀ s of 2 nM for EML4-ALK G1202R, EML4-ALKwt, EML4-ALK C1156Y, EML4-ALK F1174L, and EML4-ALK F1174L.
Targets(IC ₅₀)	Microtubule Associated, ALK
In vitro	JH-VIII-157-02 potently inhibits EML4-ALKS1206Y, EML4-ALKG1269A, EML4-ALKL1196M, EML4-ALK1151Tins, and EML4-ALKL1152R with IC ₅₀ s of 2, 3, 58, 107 and 196 nM, respectively. JH-VIII-157-02 has selectivity at other kinases, including IRAK1, CLK4, RET, RET V804L, RET V804M and IRAK 4 with IC ₅₀ s of 14 nM, 14 nM, 3 nM, 13 nM, 12 nM, and 465 nM, respectively[1].
In vivo	In mice, JH-VIII-157-02 (10 mg/kg) exhibits good oral bioavailability and penetrates the central nervous system[1].

Solubility Information

Solubility	DMSO: 25 mg/mL (53.7 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.148 mL	10.740 mL	21.480 mL
5 mM	0.4296 mL	2.148 mL	4.296 mL
10 mM	0.2148 mL	1.074 mL	2.148 mL
50 mM	0.043 mL	0.2148 mL	0.4296 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

Hatcher JM, et al. Discovery of Inhibitors That Overcome the G1202R Anaplastic Lymphoma Kinase Resistance Mutation. J Med Chem. 2015 Dec 10;58(23):9296-9308.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481