

JNJ-1013

Chemical Properties

CAS No. : 2597343-08-1

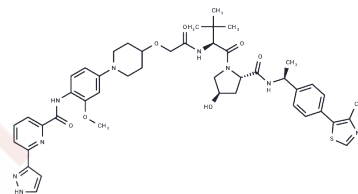
Formula: C46H55N9O7S

Molecular Weight: 878.05

Keep away from direct sunlight

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	JNJ-1013 is a potent and selective IRAK1 degrader, with IC50 values of 72 nM for IRAK1, 443 nM for IRAK4, and 1071 nM for VHL FP. It induces apoptosis, increases cleaved PARP expression, and decreases the expression of IRAK1, p-IK β , and pSTAT3(Tyr705) [1].
Targets(IC50)	Apoptosis,STAT,IRAK,PARP,PROTACs
In vitro	JNJ-1013 (Degradation; 1.5-10000 nM; 24 hours) degrades IRAK1 protein in a dose-dependent manner with a DC50 value of 3 nM [1]. At 1 μ M, JNJ-1013 diminishes the expression of IRAK1 induced by MG-132 in a dose-dependent fashion [1]. Additionally, JNJ-1013 (0.01, 0.03, 0.1, 0.3, 1 μ M; 24 h) reduces the expression of IRAK1, p-IK β , pSTAT3(Tyr705), and increases the expression of cleaved PARP [1].

Solubility Information

Solubility	DMSO: 20 mg/mL (22.78 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	1.1389 mL	5.6944 mL	11.3889 mL
5 mM	0.2278 mL	1.1389 mL	2.2778 mL
10 mM	0.1139 mL	0.5694 mL	1.1389 mL
50 mM	0.0228 mL	0.1139 mL	0.2278 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

Fu L, et al. Discovery of Highly Potent and Selective IRAK1 Degraders to Probe Scaffolding Functions of IRAK1 in ABC DLBCL. J Med Chem. 2021 Aug 12;64(15):10878-10889.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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