

JNK-IN-14

Chemical Properties

CAS No. :

Formula: C27H31N5O4S

Molecular Weight: 521.63

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	JNK-IN-14 is a potent inhibitor of JNK with IC50 values of 1.81 nM for JNK1, 12.7 nM for JNK2, and 10.5 nM for JNK3. It induces early-stage apoptosis, arrests cell population at the G2/M phase, and moderately inhibits beclin-1 production in K562 leukemia cells, demonstrating greater inhibitory efficacy than SP600125. [1]
Targets(IC50)	Cytochromes P450,JNK
In vitro	JNK-IN-14 (compound 11e) at 2.5-5 µM for 24 hours induces slight early apoptosis in K562 cells in a concentration-dependent manner. Compared to SP600125, JNK-IN-14 at 1.25-5 µM for 24 hours demonstrates enhanced inhibitory effects on K562 cell proliferation at higher concentrations [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9171 mL	9.5853 mL	19.1707 mL
5 mM	0.3834 mL	1.9171 mL	3.8341 mL
10 mM	0.1917 mL	0.9585 mL	1.9171 mL
50 mM	0.0383 mL	0.1917 mL	0.3834 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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