

BSJ-04-122

Chemical Properties

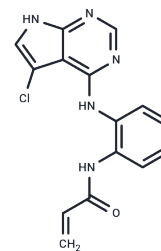
CAS No. : 2513289-74-0

Formula: C₁₅H₁₂ClN₅O

Molecular Weight: 313.74

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	BSJ-04-122 is a covalent dual inhibitor of MKK4 and MKK7, demonstrating IC ₅₀ values of 4 nM and 181 nM, respectively. [BSJ-04-122] can be used for cancer research.
Targets(IC ₅₀)	JNK,p38 MAPK
In vitro	BSJ-04-122 has inhibitory activity against MKK4 and MKK7 with IC ₅₀ values of 4 nM and 181 nM respectively.[1] BSJ-04-122 (1, 5, 10 μM; 6 h) induces a strong reduction in JNK phosphorylation.[1] BSJ-04-122 (0, 1.25, 2.5, 5, 10, 20 μM; 72 h) showed enhanced antiproliferative effects when combined with JNK-IN-8.[1]

Solubility Information

Solubility	DMSO: 55.5 mg/mL (176.9 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: 5 mg/mL (15.94 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	3.1874 mL	15.9368 mL	31.8735 mL
5 mM	0.6375 mL	3.1874 mL	6.3747 mL
10 mM	0.3187 mL	1.5937 mL	3.1874 mL
50 mM	0.0637 mL	0.3187 mL	0.6375 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

Jiang J, et al. Discovery of Covalent MKK4/7 Dual Inhibitor. Cell Chem Biol. 2020 Dec 17;27(12):1553-1560.e8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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