BSJ-04-122

Cat. No.: HY-152185

CAS No.: 2513289-74-0

Molecular Formula: $C_{15}H_{12}ClN_5O$

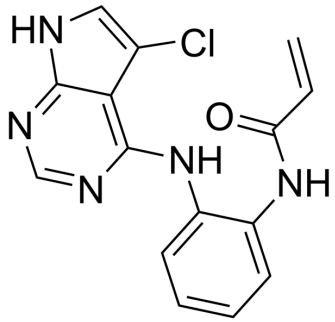
Molecular Weight: 314

Target: p38 MAPK

Pathway: MAPK/ERK Pathway

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (318.47 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.1847 mL	15.9236 mL	31.8471 mL
	5 mM	0.6369 mL	3.1847 mL	6.3694 mL
	10 mM	0.3185 mL	1.5924 mL	3.1847 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 5 mg/mL (15.92 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 5 mg/mL (15.92 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

BSJ-04-122 is a covalent MKK4/7 dual inhibitor. BSJ-04-122 inhibits MKK4 and MKK7 with IC_{50} values of 4 nM and 181 nM, respectively. BSJ-04-122 can be used for the research of cancer[1].

IC_{50} & Target

IC50: 4 nM (MKK4); 181 nM (MKK7)[1]

In Vitro

BSJ-04-122 has inhibitory activity for 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 robust reduction of JNK phosphorylation[1].
BSJ-04-122 (0, 1.25, 2.5, 5, 10, 20 μM; 72 h) shows enhanced antiproliferative effects when combination with JNK-IN-8[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	MDA-MB-231 cells
Concentration:	1, 5, 10 μM
Incubation Time:	6 h
Result:	Significantly decreased levels of T183/Y185 pJNK at 5 μM.

Cell Proliferation Assay[1]

Cell Line:	MDA-MB-231 cells
Concentration:	1-100 μM; 0, 1.25, 2.5, 5, 10, 20 μM
Incubation Time:	72 h
Result:	Exhibited antiproliferative effects when combination with JNK-IN-8 in MDA-MB-231 cells.

REFERENCES

[1]. Jie Jiang, et al. Discovery of Covalent MKK4/7 Dual Inhibitor. Cell Chem Biol

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