

CXJ-2

Chemical Properties

CAS No. :	2919976-92-2
Formula:	C55H87N15O22
Molecular Weight:	1310.37
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	CXJ-2, a cyclic peptide, demonstrates moderate affinity for elastin-derived peptides (EDPs) and exhibits potent inhibition of the PI3K/ERK pathway, alongside significant reduction in hepatic stellate cell proliferation and migration, conferring strong antifibrotic efficacy [1].
Targets(IC50)	ERK,PI3K
In vitro	CXJ-2, at a concentration of 10 μ M incubated for 24 hours, demonstrated dose-dependent inhibition of α -SMA expression in LX2 cells [1]. Additionally, CXJ-2 showed significant activity in suppressing the proliferation of LX2 cells under the same conditions [1].
In vivo	CXJ-2, administered intraperitoneally at a dosage of 150 μ g/kg daily for three weeks, significantly alleviates liver fibrosis in mice [1]. Additionally, a single subcutaneous injection of CXJ-2 at 0.1 mg/kg exhibits favorable pharmacokinetic properties [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7631 mL	3.8157 mL	7.6314 mL
5 mM	0.1526 mL	0.7631 mL	1.5263 mL
10 mM	0.0763 mL	0.3816 mL	0.7631 mL
50 mM	0.0153 mL	0.0763 mL	0.1526 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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