

SP94

Chemical Properties

CAS No. : 1158983-49-3

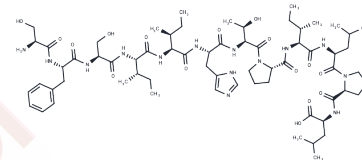
Formula: C₆₅H₁₀₄N₁₄O₁₆

Molecular Weight: 1337.60

Keep away from moisture

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	SP94 is a peptide ligand with high specificity for hepatocellular carcinoma cells. It selectively binds to various hepatocellular carcinoma cell lines in vitro. In mouse models of hepatocellular carcinoma, SP94 inhibits tumor growth by promoting tumor cell apoptosis (apoptosis) and reducing tumor angiogenesis. SP94 can serve as a specific probe for imaging hepatocellular carcinoma and is applicable in hepatocellular carcinoma research.
Targets(IC50)	Apoptosis
In vitro	SP94 (40 nM HspG41C-SM(PEG) _n -SP94, 12/23 peptide/cage, 24 hours) selectively binds to HepG2 and Huh-7 cells, while showing no binding affinity to HeLa and RLN-8 cells.
In vivo	In the Mahlavu cell xenograft mouse model, SP94 (100 µg + PC94, single dose/1 mg/kg (SP94-LD), administered intravenously once or twice weekly for 2-4 consecutive weeks) inhibits the recovery of phage particles from tumor tissue, suppresses tumor growth by enhancing apoptosis in tumor cells, and reduces tumor angiogenesis.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7476 mL	3.738 mL	7.4761 mL
5 mM	0.1495 mL	0.7476 mL	1.4952 mL
10 mM	0.0748 mL	0.3738 mL	0.7476 mL
50 mM	0.015 mL	0.0748 mL	0.1495 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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