

CyPep-1

Chemical Properties

CAS No. : 1319804-91-5

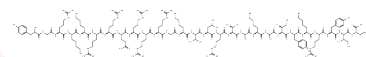
Formula: C152H265N57O35

Molecular Weight: 3451.09

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	CyPep-1 is a novel cationic lytic peptide with antitumor activity. It exerts potent cytotoxicity by interacting with the negatively charged membranes of cancer cells. CyPep-1 demonstrates strong cell lytic activity against cancer cells both in vitro and in vivo, making it useful for researching solid tumors.
Targets(IC50)	Others,Amino Acids and Derivatives
In vitro	CyPep-1 (0-40 µg/mL; 15-360 minutes) exhibits dose- and time-dependent cytotoxic effects on tumor cell lines, while affecting normal cell lines to a lesser extent.
In vivo	CyPep-1 (intratumoral injection; 1200 µg; single dose) demonstrates antitumor effects in a mouse model of breast cancer.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2898 mL	1.4488 mL	2.8976 mL
5 mM	0.058 mL	0.2898 mL	0.5795 mL
10 mM	0.029 mL	0.1449 mL	0.2898 mL
50 mM	0.0058 mL	0.029 mL	0.058 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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