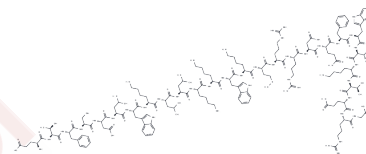


PNC-28

Chemical Properties

CAS No. :	392661-17-5
Formula:	C164H255N47O37S
Molecular Weight:	3509.14
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	PNC-28, a peptide derived from the mdm-2-binding domain of p53 protein (residues 17-26), incorporates a membrane-crossing penetratin sequence. This compound is utilized in pancreatic cancer research [1] [2].
Targets(IC50)	MDM-2/p53
In vitro	PNC-28 demonstrates activity by selectively binding to and penetrating cancer cell membranes, inducing apoptosis. This effect is notably absent in normal, non-cancerous cells due to the specific interaction with a distinct motif on the cancer cell surface. Additionally, PNC-28 facilitates the inhibition of tumor growth and metastasis.
In vivo	PNC-28, administered subcutaneously (SC) or intraperitoneally (IP) at a dose of 2 mg/mouse for 14 days, effectively impedes the growth of BMRPA1. Tuc3 cells in vivo [1]. Additionally, doses ranging from 1 to 20 mg/mouse, when given subcutaneously for the same duration, notably restrain BMRPA1. Tuc3 tumor proliferation, with pronounced efficacy when applied directly to the neoplasm [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.285 mL	1.4249 mL	2.8497 mL
5 mM	0.057 mL	0.285 mL	0.5699 mL
10 mM	0.0285 mL	0.1425 mL	0.285 mL
50 mM	0.0057 mL	0.0285 mL	0.057 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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