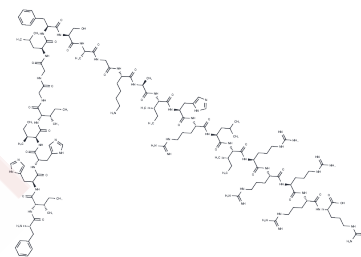


TP4 (Nile tilapia piscidin)

Chemical Properties

CAS No. :	1429184-62-2
Formula:	C135H226N50O27
Molecular Weight:	2981.56
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	TP4 (Nile tilapia piscidin) is an orally active, piscidin-like antimicrobial peptide that inhibits various gram-positive and gram-negative bacterial strains with a minimum inhibitory concentration (MIC) ranging from 0.03 to 10 µg/mL. It demonstrates hemolytic activity and promotes immune response, antioxidant activity, and intestinal health in the presence of bacterial infections. Additionally, TP4 has an anti-tumor effect and induces necrosis in cancer cells by triggering mitochondrial dysfunction [1] [2] [3].
Targets(IC50)	Antibacterial, Necroptosis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3354 mL	1.677 mL	3.3539 mL
5 mM	0.0671 mL	0.3354 mL	0.6708 mL
10 mM	0.0335 mL	0.1677 mL	0.3354 mL
50 mM	0.0067 mL	0.0335 mL	0.0671 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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