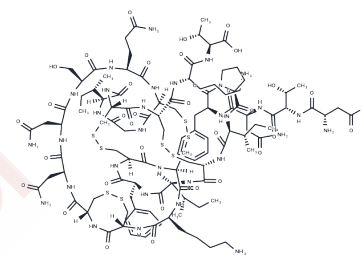


Hepcidin-1 (mouse)

Chemical Properties

CAS No. :	1676104-75-8
Formula:	C111H169N31O35S8
Molecular Weight:	2754.24
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	Hepcidin-1 (mouse) is a peptide hormone that regulates iron balance, elevates mRNA for TRAP, cathepsin K, and MMP-9, and promotes TRAP-5b protein secretion. This compound also reduces FPN1 protein levels and boosts intracellular iron, ultimately aiding in osteoclast differentiation [1].
Targets(IC50)	MMP,Cysteine Protease
In vitro	Hepcidin-1 mouse, at concentrations ranging from 200-800 nM over four days, enhances differentiation of RAW264.7 cells induced by RANKL (50 ng/mL) [1]. The same compound, at doses from 0-800 nM applied for four days, upregulates the expression of TRAP, CTK, and MMP-9 mRNA [1]. Additionally, hepcidin-1 mouse tested from 0-800 nM for a duration of 20 hours increases the levels of Trap-5b protein in RAW264.7 cells while reducing the protein levels of iron transporter 1 (FPN1) [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3631 mL	1.8154 mL	3.6308 mL
5 mM	0.0726 mL	0.3631 mL	0.7262 mL
10 mM	0.0363 mL	0.1815 mL	0.3631 mL
50 mM	0.0073 mL	0.0363 mL	0.0726 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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