

## Hepcidin-1 (mouse) TFA

## Chemical Properties

CAS No. :

Formula: C111H169N31O35S8.xC2HF3O2

Molecular Weight:

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	Hepcidin-1 (mouse) TFA, an endogenous peptide hormone, regulates iron homeostasis by upregulating mRNA levels of TRAP, cathepsin K, and MMP-9, enhancing TRAP-5b protein secretion, and downregulating FPN1 protein levels, thereby increasing intracellular iron. It also promotes osteoclast differentiation [1].
In vitro	Hepcidin-1 (mouse) TFA, administered at concentrations ranging from 200 to 800 nM for four days, enhances the differentiation of RAW264.7 cells induced by RANKL at 50 ng/mL [1]. Within the same dosage range and duration, it upregulates the expression of TRAP, CTK, and MMP-9 mRNA [1]. Additionally, treatment with Hepcidin-1 (mouse) TFA at 0-800 nM for 20 hours increases the level of Trap-5b protein and decreases the ferroportin 1 (FPN1) protein in RAW264.7 cells [1].

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