Hepcidin-1 (mouse)

MedChemExpress

®

Cat. No.:	НҮ-Р4373
CAS No.:	1676104-75-8
Molecular Formula:	C ₁₁₁ H ₁₆₉ N ₃₁ O ₃₅ S ₈
Molecular Weight:	2754.24
Sequence:	Asp-Thr-Asn-Phe-Pro-Ile-Cys-Ile-Phe-Cys-Cys-Lys-Cys-Cys-Asn-Asn-Ser-Gln-Cys-Gly-Il e-Cys-Cys-Lys-Thr (Disulfide bridge: Cys7-Cys23,Cys10-Cys22,Cys11-Cys19,Cys13-Cys1 4)
Sequence Shortening:	DTNFPICIFCCKCCNNSQCGICCKT (Disulfide bridge: Cys7-Cys23,Cys10-Cys22,Cys11-Cy s19,Cys13-Cys14)
Target:	Cathepsin; MMP
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Hepcidin-1 (mouse) is an endogenous peptide hormone involved in the regulation of iron homeostasis. Hepcidin-1 (mouse) upregulates mRNA levels of TRAP, cathepsin K, and MMP-9 and increases TRAP-5b protein secretion. Hepcidin-1 (mouse) downregulates the level of FPN1 protein and increases intracellular iron. Hepcidin-1 (mouse) facilitates osteoclast differentiation ^[1] .		
IC ₅₀ & Target	MMP-9	cathepsin K	
In Vitro	Hepcidin-1 mouse (0-800 n№ Hepcidin-1 mouse (0-800 n№ RAW264.7 cells ^[1] .	nM, 4 days) facilitates RANKL (50 ng/mL)-induced differentiation of raw264.7 cells ^[1] . 1, 4 days) up-regulates the expression of TRAP, CTK, and MMP-9 mRNA ^[1] . 1, 20 h) increases the Level of Trap-5b protein and decreased Ferroportin 1 (FPN1) protein in confirmed the accuracy of these methods. They are for reference only.	
	Cell Line:	RAW264.7 cells	
	Concentration:	0, 200, 400, or 800 nM	
	Incubation Time:	20 h	
	Result:	Decreased Ferroportin 1 (FPN1) protein.	
	Real Time qPCR ^[1]		
	Cell Line:	RAW264.7 cells	
	Concentration:	0, 200, 400, or 800 nM	
	Incubation Time:	4 days	

Product Data Sheet

Result:

REFERENCES

[1]. Zhao GY, et al. Effects of mouse hepcidin 1 treatment on osteoclast differentiation and intracellular iron concentration. Inflammation. 2015 Apr;38(2):718-27.

Caution: Product has not been fully validated for medical applications. For research use only.

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