



Recombinant Human Myostatin-Propeptide

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-349
Size:	25 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	2660
Synonyms:	MSTN; GDF8; MSLHP

Mature Myostatin is obtained by proteolytic processing of a biologically-inactive precursor protein, which contains an N-terminal propeptide of 243 amino acid residues. Myostatin Propeptide exhibits high binding affinity for myostatin and has been shown to be a potent inhibitor of Myostatin. Over-expression of myostatin propeptide in mice resulted in large increases (up to 200%) in skeletal muscle mass, similar to those observed in Myostatin knockout mice. Recombinant Human Myostatin Propeptide is a 27.8 kDa protein consisting of 244 amino acid residues.

Sequence

MNENSEQKEN VEKEGLCNAC TWRQNTKSSR IEAIIQIILS
 KLRLETAPNI SKDVIRQLLP KAPPLRELID QYDVQRDDSS
 DGSLEDDDYH ATTETIITMP TESDFLMQVD GKPKCCFFKF
 SSKIQYNKVV KAQLWIYLRP VETPTTFVQ IRLRIKPMKD
 GTRYTGIRSL KLDMPGTGI WQSIDVKTVL QNWLKQFESN
 LGIEIKALDE NGHDLAVTFP GPGEDGLNPF LEVKVTDTPK RSR

Database References

Protein RefSeq:	NP_005250.1
Uniprot ID:	O14793
mRNA RefSeq:	NM_005259.2

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	244
MW:	27.8 kDa

Biological Activity: Determined by its ability to neutralize the Myostatin inhibitory effect of murine MPC-11 cells. The expected ED50 is 0.01–0.04 µg/ml in the presence of 50 ng/ml Myostatin.



AVOID REPEATED FREEZE AND THAW CYCLES!