

Active Recombinant Human MSTN

Cat. No. MSTN-125H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Myostatin Propeptide is a 27.8 kDa protein consisting of 244 amino acid residues.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. This gene is thought to encode a secreted protein which negatively regulates skeletal muscle growth.
Form	Sterile filtered white lyophilized (freeze-dried) powder. Lyophilized with no additives.
Bio-activity	The activity is determined by its ability to inhibit 50 ng/mL of Myostatin on MPC-11 cells. The activity is typically 0.01 - 0.04 µg/mL.
Molecular Mass	27.8 kDa
AA Sequence	MNENSEQKEN VEKEGLCNAC TWRQNTKSSR IEAIKIQILS KLRLETAPNI SKDVIRQLLP KAPPLRELID QYDVQRDDSS DGSLEDDDYH ATTETIITMP TESDFLMQVD GKPKCCFFKF SSKIQYNKVV KAQLWIYLRP VETPTTVFVQ

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ILRLIKPMKD GTRYTGIRSL KLDMPNPGTGI WQSIDVKTVL QNWLKQPESN
LGIEIKALDE NGHDLAVTFP GPGEDGLNPF LEVKVTDTPK RSRR

Endotoxin

Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.

Purity

Purity Greater than 95%

Stability

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

Reconstitution

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile 20 mM HCl at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

GENE INFORMATION

Gene Name

MSTN myostatin [Homo sapiens (human)]

Official Symbol

MSTN

Synonyms

MSTN; myostatin; GDF8; MSLHP; growth/differentiation factor 8; GDF-8; growth differentiation factor 8

Gene ID

2660

mRNA Refseq

NM_005259

Protein Refseq

NP_005250

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MIM	601788
UniProt ID	O14793
Chromosome Location	2q32.2
Pathway	Hypertrophy Model
Function	cytokine activity; growth factor ; heparin binding; identical protein binding

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