

Recombinant Human myostatin Propeptide

Cat. No. MSTN-120H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human of the human Myostatin Propeptide produced in <i>E.coli</i> molecular mass of 27.8 kDa and containing 244 amino acid residues.
Species	Human
Source	E.coli
Description	Myostatin (GDF-8), a member of the TGFbeta superfamily, is a potent and specific negative regulator of skeletal muscle mass. In serum, myostatin circulates as part of a latent complex containing myostatin propeptide and/or follistatin-related gene. The myostatin propeptide is known to bind and inhibit myostatin in vitro. This interaction is relevant in vivo, with a majority (>70%) of myostatin in serum bound to its propeptide. The myostatin propeptide is negative regulator of myostatin in vivo.
Amino acid sequence	MNENSEQKE NVEKEGLCNA CTWRQNTKSS RIEAIKIQIL SKLRLETAPN ISKDVIRQLL PKAPPLRELI DQYDVQRDDS SDGSLEDDDY HATTETITM PTESDFLMQV DGKPKCCFFK FSSKIQYNKV VKAQLWIYLR PVETPTTVFV QILRLIKPMK DGTRYTGIRS LKLDMNPGTG IWQSIDVKTV LQNWLKQPES NLGIEIKALD ENGHDLAVTF PGPGEDGLNP FLEVKVTDTP KRSRR.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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Formulation	Lyophilized from 10 mM Acetic Acid.
Applications	Western blotting, ELISA.
Solubility	It is recommended to reconstitute the lyophilized Myostatin Propeptide in sterile 20 mM HCl at 0.1 mg/ml, which can then be further diluted to other aqueous solutions.
Stability	Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time. The lyophilized protein remains stable until the expiry date when stored at -20°C.

GENE INFORMATION

Gene Name	MSTN myostatin [Homo sapiens]
Synonyms	MSTN; myostatin; GDF8; growth differentiation factor 8; GDF-8; Myostatin
Gene ID	2660
mRNA Refseq	NM_005259
Protein Refseq	NP_005250
MIM	601788
UniProt ID	O14793
Chromosome Location	2q32.2

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Function	cytokine activity; growth factor activity
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