

Recombinant Human MSTN, His-tagged

Cat. No. MSTN-119H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MSTN(total 152AA.), fused with N-terminal His-tag, was expressed in E.Coli.
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	Filtered white lyophilized (freeze-dried) powder. Filtered (0.4µm) and lyophilized from 0.5 mg/ml in 0.05M acetate buffer, pH 4.5.
Molecular Mass	16.7kDa (calculated)
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDPSSRSAVR SRRDFGLDCD EHSTESRCCR YPLTVDFEAFGWDWIIAPKR YKANYCSGEC EFVFLQKYPH THLVHQANPR GSAGPCCTPT KMSPINMLYF NGKEQIIYGKIPAMVVDRCG CS.
Purity	Greater than 95% as determined by SDS-PAGE.

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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; it does not show any change after two weeks at 4°C.

Concentration Add 0.1M Acetate buffer pH-4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10µg/ml. In higher concentrations the solubility of this antigen is limited.

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](#)

MIM [601788](#)

UniProt ID O14793

Chromosome Location 2q32.2

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Pathway	Hypertrophy Model
Function	cytokine activity; growth factor ; heparin binding; identical protein binding