

Recombinant Human MSTN, His-tagged

Cat. No. MSTN-507H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Total 152AA, MW: 16.7 kDa (calculated). N-terminal His-tag including the spacer 43AA (highlighted). The AA sequence of the human myostatin part of the fusion protein is corresponding to the UniProtKB/Swiss-Prot entry O14793, AA267-375.
Species	Human
Source	E.coli
ProteinLength	267-375 a.a.
Description	MSTN (also known as growth differentiation factor 8, abbreviated "GDF8") is a secreted TGF beta protein family member that inhibits muscle differentiation and growth. MSTN is produced primarily in skeletal muscle cells, circulates in the blood and acts on muscle tissue, by binding a cell-bound receptor called the activin type II receptor. In humans, MSTN is encoded by the MSTN gene.
Form	Filtered (0,4 µm) and lyophilized from 0.5 mg/mL in 0.05 M acetate buffer, PH 4.5.
Research topic	Muscle growth control
Purity	>95%
Reconstitution	Add 0.1M Acetate buffer pH4 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

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10µg/mL. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Applications ELISA; Western blotting

Quality Control Test BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein

Sequences of amino acids MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDPSSRSAVR SRRDFGLDCD
EHSTESRCCR YPLTVDFEAF GWDWIIAPKR YKANYCSGEC EFVFLQKYPH
THLVHQANPR GSAGPCCTPT KMSPINMLYF NGKEQIIYGK IPAMVVDRCG CS

Storage Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

GENE INFORMATION

Gene Name [MSTN myostatin \[Homo sapiens \]](#)

Official Symbol [MSTN](#)

Synonyms MSTN; myostatin; growth/differentiation factor 8; GDF-8; OTTHUMP00000163498; growth differentiation factor 8

Gene ID [2660](#)

mRNA Refseq [NM_005259](#)

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Protein Refseq	NP_005250
MIM	601788
UniProt ID	O14793
Chromosome Location	2q32
Pathway	Hypertrophy Model
Function	growth factor activity; cytokine activity; receptor binding; contributes_to receptor binding

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