

Recombinant Human MSTN Protein, His-tagged

Cat. No. MSTN-2458H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MSTN Protein (Asp267-Ser375) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Asp267-Ser375
Description	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein negatively regulates skeletal muscle cell proliferation and differentiation. Mutations in this gene are associated with increased skeletal muscle mass in humans and other mammals.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 13.8 kDa Accurate Molecular Mass: 14 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 97%

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Applications	Cell culture; Activity Assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4.
Reconstitution	Reconstitute in 10mM PBS to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	MSTN myostatin [Homo sapiens (human)]
Official Symbol	MSTN
Synonyms	MSTN; myostatin; GDF8, growth differentiation factor 8; growth/differentiation factor 8; GDF-8; growth differentiation factor 8; GDF8; MSLHP;
Gene ID	2660
mRNA Refseq	NM_005259
Protein Refseq	NP_005250
MIM	601788

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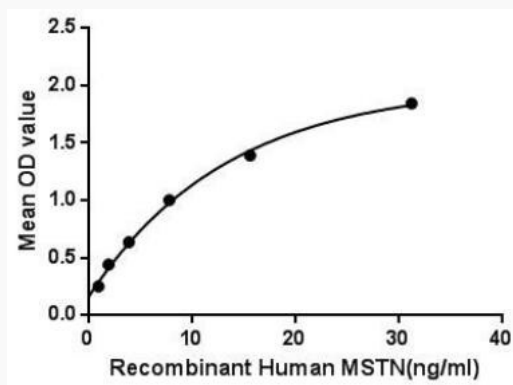
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UniProt ID

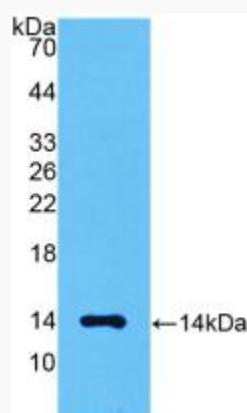
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Bioactivity



Binding activity

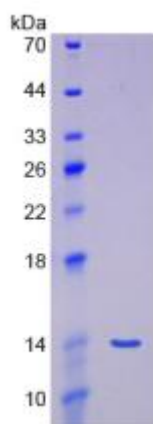
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