

Recombinant Human MSTN Protein, His-tagged

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

SPECIFICATION

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|-------------------------|---|
| 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

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|------------------------|---|
| 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 |

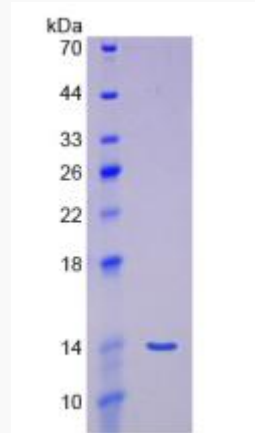
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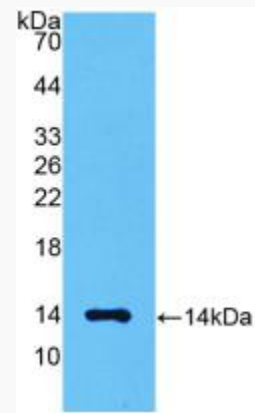
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UniProt ID

O14793




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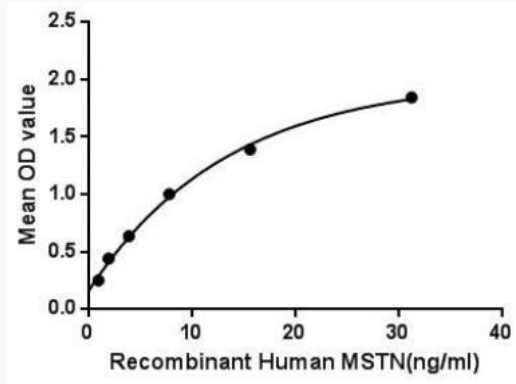


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Bioactivity



Binding activity

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