

Active Recombinant Human/Mouse/Rat Mstn Protein (Asp268-Ser376), GMP Grade

Cat. No. Mstn-07HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP recombinant human/Mouse/Rat GDF-8/Myostatin protein (Asp268-Ser376) without tag was expressed in Mouse myeloma cell line and Manufactured and tested under current Good Manufacturing Practice (GMP) guidelines.
Species	Human/Mouse/Rat
Source	NS0
ProteinLength	Asp268-Ser376
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. Homozygous knockout mice for this gene exhibit increased muscle mass and bone density, and reduced adiposity.
Form	Disulfide-linked homodimer
Bio-activity	Measured by its ability to induce hemoglobin expression in K562 human chronic myelogenous leukemia cells. The ED50 for this effect is 2-10 ng/mL.

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Molecular Mass	Predicted Molecular Mass: 12.4 kDa SDS-PAGE: 12 kDa, reducing conditions; 24 kDa, non-reducing conditions
N-terminal Sequence Analysis	Asp-Phe-Gly-Leu-Asp-(Cys)-Asp-Glu-His-Ser
Endotoxin	<0.10 EU/ µg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE with silver staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. A minimum of 12 months when stored at ≤ -20 centigrade as supplied. Refer to lot specific COA for the Use by Date. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, ≤ -20 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA.
Reconstitution	Reconstitute at 100 µg/mL in 4 mM HCl.
Shipping	The product is shipped with polar packs.

GENE INFORMATION

Gene Name	Mstn myostatin [<i>Mus musculus</i>]
Official Symbol	Mstn
Synonyms	MSTN; myostatin; growth/differentiation factor 8; GDF-8; compact; growth differentiation factor 8; Cmpt; Gdf8; MGC124261; MGC124262; MGC124263;

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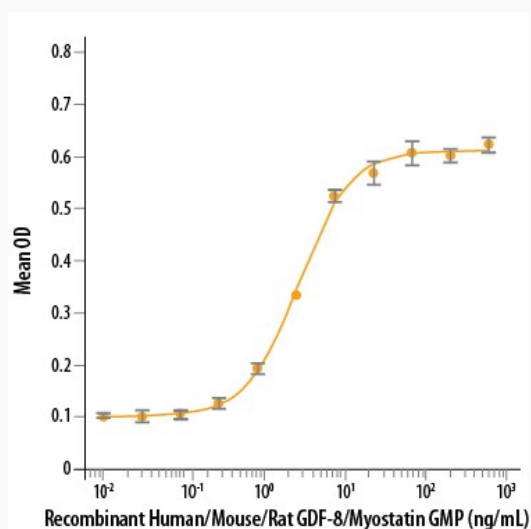
Gene ID 17700

mRNA Refseq NM_010834

Protein Refseq NP_034964

UniProt ID O08689

Bioactivity

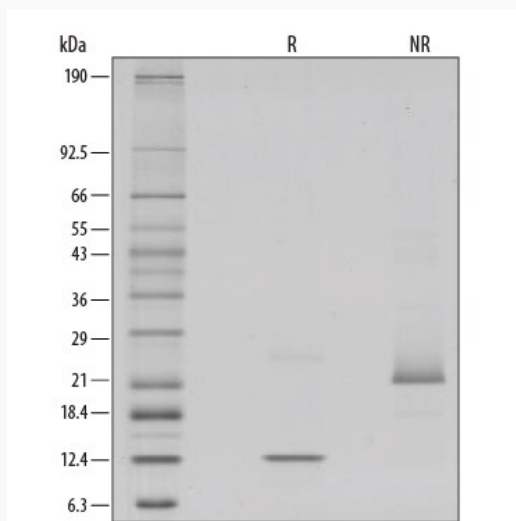


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SDS-PAGE



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