

Active Recombinant Human MSTN Protein

Cat. No. MSTN-052H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The mature recombinant human GDF-8 protein (268-376aa) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	268-376 a.a.
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.
Bio-activity	The ED50 as determined by the inhibition of the proliferation of MPC-11 cells is < 20ng/mL, corresponding to a Specific Activity of 50,000units/mg.
Molecular Mass	12.4 kDa
Product-Related Proteins	268-376

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Endotoxin	< 0.1 EU/μg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Storage	At -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	PBS

GENE INFORMATION

Gene Name	MSTN myostatin [Homo sapiens (human)]
Official Symbol	MSTN
Synonyms	MSTN; myostatin; GDF8; MSLHP; growth/differentiation factor 8
Gene ID	2660
mRNA Refseq	NM_005259
Protein Refseq	NP_005250
MIM	601788
UniProt ID	O14793

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