

Product datasheet for TP723322

Myostatin Propeptide (MSTN) (NM_005259) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human myostatin (MSTN).
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	DFGLDCDEHS TESRCCRYPL TVDFEAFGWD WIIAPKRYKA NYCSGECEFV FLQKYPHTHL VHQANPRGSA GPCCTPTKMS PINMLYFNGK EQIYGKIPA MVVDRCGCS
Tag:	Tag Free
Predicted MW:	25 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	Determined by its ability to inhibit the proliferation of MPC-11 cells. The expected ED50 for this effect is 17.0-25.0 ng/ml.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_005250
Locus ID:	2660
UniProt ID:	O14793 , Q53S46
RefSeq Size:	2823
Cytogenetics:	2q32.2
RefSeq ORF:	1125
Synonyms:	GDF8; MSLHP



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Summary:

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. [provided by RefSeq, Jul 2016]

Protein Families:

Druggable Genome, Secreted Protein