

## Product datasheet for **TP723323**

### 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:	MNENSEQKEN VEKEGLCNAC TWRQNTKSSR IEAIKIQILS KLRLETAPNI SKDVIRQLLP KAPPLRELID QYDVQRDDSS DGSLEDDDYH ATTETIITMP TESDFLMQVD GPKKCCFFKF SSKIQYNKVV KAQLWIYLRP VETPTTVFVQ ILRLIKPMKD GTRYTGIRSL KLDMNPGTGI WQSIDVKTVL QNWLKQPESN LGIEIKALDE NGHDLAVTFP GPGEDGLNPF LEVKVTDTPK RSRR
Tag:	Tag Free
Predicted MW:	27.8 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 neutralize the Myostatin inhibitory effect of murine MPC-11 cells. The expected ED50 is 0.01-0.04 ug/mL in the presence of 50 ng/ml Myostatin.
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:	<a href="#">NP_005250</a>
Locus ID:	2660
UniProt ID:	<a href="#">O14793</a> , <a href="#">Q53S46</a>
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