Bioactive

MSTN (Human) Recombinant Protein

Catalog # P3612 Size 10 ug

Specification

Product Description	Human MSTN (O14793, 267 a.a. - 375 a.a.) partial recombinant protein. expressed in *Escherichia coli*.
Sequence	DFGLDCDEHSTESRCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGECEFVFLQKYPHTHLVHQA NPRGSAGPCCTPTKMSPINMLYFNGKEQIIYGKIPAMVVDRCGCS
Host	Escherichia coli
Theoretical MW (kDa)	25 (non-reducing)
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purification	Ion exchange column and HPLC reverse phase column
Purity	> 90% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED_{50} was determined by the dose-dependent proliferation inhibition of human MPC-11 cells wa s found to be in the range of 20.0-40.0 ng/mL.
Storage Buffer	Lyophilized from Tris, pH 8.0
Storage Instruction	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — MSTN

Entrez GeneID	2660
Protein Accession#	O14793
Gene Name	MSTN
Gene Alias	GDF8
Gene Description	myostatin
Omim ID	601788
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. This gene is thought to encode a secreted protein which negatively regulates skeletal muscle growth. [provided by RefSeq
Other Designations	growth differentiation factor 8

Disease

- Genetic Predisposition to Disease
- Muscle Weakness
- Muscular Atrophy
- Obesity
- Ovarian Failure
- Polycystic Ovary Syndrome
- Puberty
- Thrombophilia
- Tobacco Use Disorder