Bioactive

MSTN (Human) Recombinant Protein

Catalog # P4431 Size 10 ug

Applications

Result of activity analysis

Result of activity analysis

MPC-11 cells were cultured with 0 to 500 ng/mL human MSTN. Cell proliferation was measured after 66 hours and the linear portion of the curve was us used to calculate the ED50.

Specification

Product Description	Human MSTN (O14793) recombinant protein expressed in *Escherichia coli*.
Sequence	DFGLDCDEHSTESRCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGECEFVFLQKYPHTHLVHQA NPRGSAGPCCTPTKMSPINMLYFNGKEQIIYGKIPAMVVDRCGCS
Host	Escherichia coli
Theoretical MW (kDa)	24.8
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Endotoxin Level	< 0.1 EU/ug
Activity	The activity is determined by the inhibition of the proliferation of MPC-11 cells. The expected ED_{50} fo r this effect is 5.7-8.5 ng/mL.
Storage Buffer	No additive
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 20 mM HCl, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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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 a nd the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic pr ocessing site which is cleaved to produce a mature protein containing seven conserved cysteine r esidues. The members of this family are regulators of cell growth and differentiation in both embry onic and adult tissues. This gene is thought to encode a secreted protein which negatively regulat es skeletal muscle growth. [provided by RefSeq
Other Designations	growth differentiation factor 8

Disease

- Genetic Predisposition to Disease
- Muscle Weakness
- Muscular Atrophy

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- Obesity
- Ovarian Failure
- Polycystic Ovary Syndrome
- Puberty
- Thrombophilia
- Tobacco Use Disorder

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