

Bioactive

MSTN (Human) Recombinant Protein

Catalog # P4562

Size 25 ug

Applications

Result of activity analysis

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MPC-11 cells were cultured with 50 ng/mL human GDF15 and serial dilutions of human Myostatin Propeptide from 0-1 ug/mL. Cell proliferation was measured after 66 hours and the linear portion of the curve was used to calculate the ED50.

Specification

Product Description	Human MSTN recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	MNENSEQKENVEKEGLCNACTWRQNTKSSRIEAIKIQILSKLRLETAPNISKDVIRQLLPKAPPLREL IDQYDVQRDDSSDGSLEDDDYHATTETIITMPTESDFLMQVDGKPKCCFFKFSSKIQYNKVKAQL WYLRPVETPTTVFVQILRLIKPMKDGYTRYTGIRSLKLDMNPGTGIWQSIDVKTVLQNWLLKQPESNL GIEIKALDENGHDLAFTFPGPGEDGLNPFLEVKVTDTPKRSRR
Host	Escherichia coli
Theoretical MW (kDa)	26.8
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Endotoxin Level	< 0.1 EU/ug
Activity	The activity is determined by the ability to inhibit 50 ng/mL of Myostatin activity on MPC-11 cells. The expected ED ₅₀ for this effect is 0.13-0.2 ug/mL.
Storage Buffer	No additive

Storage Instruction

Store at -20°C on dry atmosphere.
After reconstitution with 5 mM acetic acid, store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

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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 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](#)