

Datasheet for ABIN2468877

MSTN Protein (Propeptide)

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Overview

Quantity:	0.005 mg
Target:	MSTN
Protein Characteristics:	Propeptide
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	MNENSEQKEN VEKEGLCNAC TWRQNTKSSR IEAIIQILS KLRLETAPNI SKDVIRQLLP KAPPLRELID QYDVQRDDSS DGSLEDDDYH ATTETIITMP TESDFLMQVD GKPKCCFFKF SSKIQYNKVV KAQLWIYLRP VETPTTVFVQ ILRLIKPMKD GTRYTGIRSL KLDMNPGTGI WQSIDVKTVL QNWLKQPESN LGIEIKALDE NGHDLAVTFP GPGEDGLNPF LEVKVTDTPK RSRR
Characteristics:	Biological activity was determined by its ability to neutralize the Myostatin inhibitory effect of murine MPC - 11 cells. The expected ED50 is 0.01 - 0.04 µg/mL in the presence of 50 ng/mL Myostatin.
Purity:	< 98 % by SDS-PAGE gel and HPLC analyses.
Endotoxin Level:	Endotoxin level is less than 0.1 ng per µg (1 EU/µg).

Target Details

Target:	MSTN
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Target Details

Alternative Name:	Myostatin (MSTN Products)
Background:	Mature Myostatin is obtained by proteolytic processing of a biologically-inactive precursor protein, which contains an N-terminal propeptide of 243 amino acid residues. Myostatin Propeptide exhibits high binding affinity for myostatin and has been shown to be a potent inhibitor of Myostatin. Over-expression of myostatin propeptide in mice resulted in large increases (up to 200 %) in skeletal muscle mass, similar to those observed in Myostatin knockout mice. Recombinant Human Myostatin Propeptide is a 27.8 kDa protein consisting of 244 amino acid residues.
Gene ID:	2660
NCBI Accession:	NP_005250
OMIM:	4885259
UniProt:	O14793

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Handling Advice:	As with any protein, exposing Myostatin Propeptide recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.
Storage:	-20 °C
Storage Comment:	The recombinant protein is stable for at least 2 years from date of receipt at -20 °C. Reconstituted Myostatin Propeptide is stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C.
Expiry Date:	24 months