



Recombinant Human Myostatin Propeptide

Catalog Number: 100-142

Accession Number: O14793

Specifications and Uses:

Alternate Names: None

Description:

Myostatin (GDF-8), a member of the TGF- β superfamily, is a potent and specific negative regulator of skeletal muscle mass. The myostatin propeptide is known to bind and inhibit myostatin in vitro. This interaction is relevant in vivo, with a majority (>70%) of myostatin in serum bound to its propeptide acting as a negative regulator of myostatin. Recombinant human Myostatin Propeptide is a non-glycosylated protein, containing 244 (24-266) amino acids, with a molecular weight of 27.8 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant human Myostatin Propeptide is lyophilized with no additives.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile **20 mM HCl** at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions

Protein Content and Purity (typically $\geq 95\%$) determined by:

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein.

Biological Activity:

The activity is determined by its ability to inhibit 50 ng/mL of Myostatin on MPC-11 cells and is typically 0.01-0.04 μ g/mL.

AA Sequence:

MNENSEQKEN VEKEGLCNAC TWRQNTKSSR IEAIKIQLS KLRLETAPNI SKDVIRQLLP KAPPLRELID
QYDVQRDDSS DGSLEDDDYH ATTETIITMP TESDFLMQVD GKPKCCFFKF SSKIQYNKVV KAQLWIYLRP
VETPTTVFVQ ILRLIKPMKD GTRYTGIRSL KLDMNPGTGI WQSIDVKTVL QNWLKQPESN LGIEIKALDE
NGHDLAVTFP GPGEDGLNPF LE

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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