



Myostatin, Propeptide, human recombinant (rHuGDF-8)

Catalog No: 94982
Lot No: XXXXX
Source: *E. coli*
Synonyms: GDF-8, MSTN, Growth Differentiation Factor 8, MSTN Muscle Hypertrophy

Background

Myostatin (GDF-8), a member of the TGFbeta superfamily, is a potent and specific negative regulator of skeletal muscle mass. In serum, myostatin circulates as part of a latent complex containing myostatin propeptide and/or follistatin-related gene. 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. The myostatin propeptide is negative regulator of myostatin in vivo.

Description

Myostatin propeptide human recombinant is a 27.8 kDa protein containing 244 amino acid residues of human Myostatin Propeptide.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from 10 mM acetic acid.

Solubility

It is recommended to reconstitute the lyophilized Myostatin Propeptide in sterile 50 mM acetic acid at 0.1 mg/ml, which can then be further diluted to other aqueous solutions.

Stability

Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time.

Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

MNENSEQKEN VEKEGLCNAC TWRQNTKSSR IEAIKIQILS KLRLETAPNI SKDVIRQLLP KAPPLRELID QYDVQRDDSS
DGSLEDDDYH ATTETIITMP TESDFLMQVD GKPKCCFFKF SSKIYQNKVV KAQLWIYLRP VETPTTVFVQ ILRLIKPMKD
GTRYTGIRSL KLDMPGTGI WQSIDVKTVL QNWLKQPESN LGIEIKALDE NGHDLAVTFP GPGEDGLNPF LEVKVTDTPK
RSRR

Usage

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