RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Recombinant Human Myostatin Propeptide

Catalog No.
228-11146

Source
Escherichia Coli.

Synonyms

GDF-8, MSTN, Growth Differentiation Factor 8, MSTN Muscle Hypertrophy.

Introduction

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

28 kDa protein containing 243 amino acid residues of the human Myostatin Propeptide and 5 additional amino acid residues (underlined).

MGNENSEQKE NVEKEGLCNA CTWRQNTKSS RIEAIKIQIL SKLRLETAPN
ISKDVIRQLL PKAPPLRELI DQYDVQRDDS SDGSLEDDDY HATTETIITM
PTESDFLMQV DGKPKCCFFK FSSKIQYNKV VKAQLWIYLR PVETPTTVFV
QILRLIKPMK DGTRYTGIRS LKLDMNPGTG IWQSIDVKTV LQNWLKQPES
NLGIEIKALD ENGHDLAVTF PGPGEDGLNP FLEVKVTDTP KRSRRKLN

Specificity

The amino acid sequence of the recombinant human Myostatin Propeptide is100% homologous to the amino acid sequence of the human Myostatin Propeptide without signal sequence.

Purification Method

Two-step procedure using size exclusion chromatography before and after refolding.

Physical Appearance

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from 10mM Acetic Acid.

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Purity

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

Solubility

It is recommended to reconstitute the lyophilized Myostatin Propeptide in sterile 20mM HCl 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. The lyophilized protein remains stable until the expiry date when stored at -20°C.

Applications

Western blotting, ELISA.