



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Recombinant Human Myostatin, His-Tag (Myostatin)

Catalog No.
228-11145

Source:
E.Coli

Introduction

Myostatin (GDF-8) is expressed uniquely in human skeletal muscle as a 12 kDa mature glycoprotein consisting of 113 amino acid residues and secreted into plasma. Myostatin is a member of the transforming growth factor β superfamily of secreted growth and differentiation factors that is essential for proper regulation of skeletal muscle mass. Studies have shown that myostatin could play an important role in cardiac development and physiology.

Description

Total 152AA. M.W. 16.7kDa (calculated). N-terminal His-tag and spacer (43AA – highlighted). The AA sequence of the human myostatin part of the fusion protein is corresponding to the UniProtKB/Swiss-Prot entry O14793.

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDPSSRSAVR SRRDFGLDCD
EHSTESRCCR YPLTVDFEAFGWDWIIAPKR YKANYCSGEC EFVFLQKYPH THLVHQNPR
GSAGPCCTPT KMSPINMLYF NGKEQIIYGKIPAMVVDRCG CS.

Formulation

Sterile filtered (0.4 μ m) and lyophilized from 0.5 mg/ml in 0.05M acetate buffer, pH 4.5.

Purity

Greater than 95% as determined by SDS-PAGE.

Solubility

Add 0.1M Acetate buffer pH-4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 μ g/ml. In higher concentrations the solubility of this antigen is limited.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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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; it does not show any change after two weeks at 4°C. The lyophilized GDF-8 remains stable until the expiry date when stored at -20°C.

Applications

Western blotting, ELISA.

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