



Myostatin, His Tag, human recombinant (rHuMyostatin-His)

Catalog No: 94980
Lot No: XXXXX
Source: *E. coli*
Synonyms: GDF-8, MSTN, Growth/Differentiation Factor 8, MSTN Muscle Hypertrophy

Background

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

Myostatin human recombinant produced in *E. coli* is an 16.7 kDa protein (calculated) containing 152 amino acids with an N-terminal His Tag and a 43 amino acid spacer. The amino acid sequence of the human myostatin part of the fusion protein is corresponding to the UniProtKB/Swiss-Prot entry O14793.

Formulation

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

Solubility

Add 0.1 M 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.

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.

Purity

Greater than 95% as determined by SDS-PAGE.

Amino Acid Sequence

MRGSHHHHHH GMASMTGGGQQ MGRDLYDDDD KDPSSRS AVR SRRDFGLDCD EHSTESRCCR YPLTVDFEAFGWDWIIAPKR
YKANYCSGEC EFVLQKYPH THLVHQANPR GSAGPCCTPT KMSPINMLYF NGKEQIYGKIPAMVVDRCG CS

Applications

WB*ELISA

Usage

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CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51