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## Product Data Sheet

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Product Name: Myostatin Human, His  
 Cat. No.: GP20760  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	GDF-8; MSTN; Growth/Differentiation Factor 8;MSTN Muscle Hypertrophy.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDPSSRSAVR SRRDFGLDCD EHSTESRCCR YPLTVDFEAFGWDWIIAPKR YKANYCSGEC EFVFLQKYPH THLVHQANPR GSAGPCCTPT KMSPINMLYF NGKEQIIYGKIPAMVVDRCG CS.		
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 $\mu$ g/ml. In higher concentrations the solubility of this antigen is limited.		
Formulation	Filtered (0.4 $\mu$ m) and lyophilized from 0.5mg/ml in 0.05M acetate buffer, pH 4.5.		

### 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  $\beta$  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.

### 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 .

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

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.

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