
Product Data Sheet

Product Name: Myostatin Propeptide Human
 Cat. No.: GP20762
 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	MNENSEQKE NVEKEGLCNA CTWRQNTKSS RIEAIKIQL SKLRLETAPN ISKDVIRQLL PKAPPLRELI DQYDVQRDDS SDGSLEDDDY HATTETIITM PTESDFLMQV DGKPKCCFFK FSSKIQYNKV VKAQLWIYLR PVETPTTVFV QILRLIKPMK DGTRYTGIRS LKLDMPGTG IWQSIDVKTV LQNWLKQPES NLGIEIKALD ENGHDLAVTF PGPGEDGLNP FLEVKVTDTP KRSRR.		
Solubility	It is recommended to reconstitute the lyophilized Myostatin Propeptide in sterile 20mM HCl at 0.1mg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized with no additives.		

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.

Biological Activity

The protein has full biological activity when compared to a standard. The activity is determined by its ability to inhibit 50ng/ml of Myostatin on MPC-11 cells and is typically 0.13-0.2 µg/ml.

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

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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.

Background

Recombinant Human Myostatin Propeptide is a 27.8kDa protein containing 244 amino acid residues of the human Myostatin Propeptide.

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