9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Myostatin Propeptide Human

Myostatin Propeptide Human Recombinant
GRF0274

Product Overview

Name	Myostatin Propeptide Human
Description	
Myostatin Propeptide Human Recombinant	
Accession (Primary)	O14793
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered white lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized with no additives.	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
MNENSEQKE NVEKEGLCNA CTWRQNTKSS RIEAIKIQIL SKLRLETAPN ISKDVIRQLL PKAPPLRELI DQYDVQRDDS SDGSLEDDDY HATTETIITM PTESDFLMQV DGKPKCCFFK FSSKIQYNKV VKAQLWIYLR PVETPTTVFV QILRLIKPMK DGTRYTGIRS LKLDMNPGTG IWQSIDVKTV LQNWLKQPES NLGIEIKALD ENGHDLAVTF PGPGEDGLNP FLEVKVTDTP KRSRR.	

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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.

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.

Precautions

Myostatin Propeptide Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O14793)