

## 32-1613: Myostatin Propetide Recombinant Protein

**Alternative Name :** GDF-8,MSTN,Growth Differentiation Factor 8,MSTN Muscle Hypertrophy.

### Description

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

### Product Info

<b>Amount :</b>	25 µg
<b>Purification :</b>	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	Lyophilized with no additives.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MNENSEQKE NVEKEGLCNA CTWRQNTKSS RIEAIKIQL SKLRLETAPN ISKDVI RQLL PKAPPLRELI DQYDVQRDDS SDGSLEDDDY HATTETIITM PTESDFLMQV DGKPKCCFFK FSSKIQYNKV VKAQLWIYLR PVETPTTVFV QILRLIKPMK DGTRYTGIRS LKLDMNP GTG IWQSIDVKTV LQNWLKQPES NLGIEIKALD ENGHDLAVTF PGPGEDGLNP FLEVKVTDTP KRSRR.

### Application Note

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. 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.

