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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

Amount :	25 µg
Purification :	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	Lyophilized with no additives.
Storage condition :	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.
Amino Acid :	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.

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 Î¼g/ml.