Recombinant Human Growth Differentiation Factor-8 (rh GDF-8 / Myostatin Propeptide)

Synonyms: MSTN, 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.

Description: Recombinant Human GDF-8 is a 27.8kDa protein containing 244 amino acid residues of the human Myostatin Propeptide.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized with no additives

The samples of 1µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized Myostatin Propeptide in sterile 20mM HCl at 0.1 mg/ml, which can then be further diluted to other aqueous solutions. Please prevent freeze-thaw cycles. Reconstituted protein can be stored at 4°C for a limited period of time.

Stability: Lyophilized rh GDF-8 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

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.

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

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small	5 µg	Cat.N°	11343470
medium	25 µg	Cat.N°	11343474