



Product Datasheet

Product Name	Myostatin Propeptide Human Recombinant
Cata No	CB500350
Source	<i>Escherichia Coli.</i>
Synonyms	GDF-8, MSTN, Growth Differentiation Factor 8, MSTN Muscle Hypertrophy.

Description

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.

28 kDa protein containing 243 amino acid residues of the human Myostatin Propeptide and 5 additional amino acid residues (underlined).

MGNENSEQKE NVEKEGLCNA CTWRQNTKSS
RIEAIKIQL SKLRLETAPN ISKDVIQRL
PKAPPLRELI DQYDVQRDDS SDGSLEDDDY
HATTETIITM PTESDFLMQV DGKPKCCFFK
FSSKIQYNKV VKAQLWIYLR PVETPTTVFV
QILRLIKPMK DGTRYTGIRS LKLDMPGTG
IWQSIDVKTV LQNWLKQPES NLGIEIKALD

ENGHDLAVTF PGPGEDGLNP FLEVKVTDTP
KRSRRKLN

Physical Appearance

Sterile Filtered white lyophilized (freeze-dried) powder.

Purity

Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

Lyophilized from 10mM Acetic Acid.

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. The lyophilized protein remains stable until the expiry date when stored at -20°C.

Applications

Western blotting, ELISA.

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