



Product Datasheet

Product Name	Myostatin Human Recombinant, His Tag
Cata No	CB500347
Source	<i>Escherichia Coli.</i>
Synonyms	GDF-8, MSTN, Growth/Differentiation Factor 8, MSTN Muscle Hypertrophy.

Description

Myostatin (GDF-8) is expressed uniquely in human skeletal muscle as a 12 kDa mature glycoprotein consisting of 113 amino acid residues and secreted into plasma. Myostatin is a member of the transforming growth factor β superfamily of secreted growth and differentiation factors that is essential for proper regulation of skeletal muscle mass. Studies have shown that myostatin could play an important role in cardiac development and physiology. Total 152AA. M.W. 16.7kDa (calculated). N-terminal His-tag and spacer (43AA – highlighted). The AA sequence of the human myostatin part of the fusion protein is corresponding to the UniProtKB/Swiss-Prot entry O14793.

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD
KDPSSRS AVR SRRDFGLDCD EHSTESRCCR
YPLTVDFEAFGWDWIAPKR YKANYCSGEC

EFVFLQKYPH THLVHQANPR GSAGPCCTPT
KMSPINMLYF NGKEQIIYGKIPAMVVDRCG CS

Purity

Greater than 95% as determined by SDS-PAGE.

Formulation

Sterile filtered (0.4 μ m) and lyophilized from 0.5 mg/ml in 0.05M acetate buffer, pH 4.5.

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; it does not show any change after two weeks at 4°C. The lyophilized GDF-8 remains stable until the expiry date when stored at -20°C.

Applications

Western blotting, ELISA.