

## Myostatin Human, Plant

**Description:** Myostatin Human Recombinant produced in Nicotiana benthamiana plant is a single chain containing 115 amino acids (molecular formula C<sub>586</sub>H<sub>865</sub>N<sub>165</sub>O<sub>164</sub>S<sub>12</sub>) and 6-His-tag at the N-terminal having the total molecular mass of 13.2kDa.

**Catalog #:** CYPs-062

For research use only.

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

**Source:** Nicotiana benthamiana plant

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** HHHHHHDFGL DCDEHSTESR CCRYPLTVDF EAFGWDWIIA  
PKRYKANYCS GECEFVFLQKYPHTLVHQA NPRGSAGPCC TPTKMSPINM LYFNGKEQII  
YGKIPAMVVD RCGCS

**Purity:** Greater than 97.0% as determined by Analysis by SDS-PAGE.

**Formulation:**

Lyophilized from 1mg/ml solution in glycine 0.05M buffer at pH 8.5 and 100mM NaCl.

**Stability:**

Lyophilized Myostatin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Myostatin should be stored at 4°C between 2-7 days and for future use 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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized Myostatin in sterile 18M-cm H<sub>2</sub>O not less than 100

**Introduction:**

GDF8 is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. This gene is thought to encode a secreted protein which negatively regulates skeletal muscle growth.

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