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# California Bioscience

## Product Datasheet

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|---|---|
| **Product Name** | Myostatin Human Recombinant |
| **Cata No** | CB500320 |
| **Source** | *Escherichia Coli.* |
| **Synonyms** | GDF-8, MSTN, Growth Differentiation Factor 8, MSTN Muscle Hypertrophy. |

### Description

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.

Myostatin Human Recombinant produced in E.Coli is a homodimer, non-glycosylated polypeptide chain containing 2 x 109 amino acids and having a total molecular mass of 24814 Dalton.
The GDF-8 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

### Biological Activity

The ED50 as determined by the inhibition of the prolifiration of MPC-11 cells is < 20 ng/ml.

### Purity

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

### Formulation

Lyophilized from a concentrated (1mg/ml) solution containing no additives.

### Stability

Lyophilized Myostatin although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. Upon reconstitution Myostatin should be stored at 4℃ between 2-7 days and for future use below -18℃.
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
**Please prevent freeze-thaw cycles.**

### Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Asp-Phe-Gly-Leu-Asp.