

Recombinant Human/Murine/Rat Myostatin
Catalog # PBG10323**Specification**

Recombinant Human/Murine/Rat Myostatin - Product Information**Recombinant Human/Murine/Rat Myostatin - Additional Information****Description**

Myostatin is a TGF- β family member that acts as an inhibitor of skeletal muscle growth. This muscle-specific cytokine interacts with Activin type I and type II receptors, and suppresses myoblast proliferation by arresting cell-cycle in the G1 phase. Suppression of myostatin activity facilitates muscle formation and may be useful in reducing and/or preventing adiposity and type-2 diabetes. Myostatin activity can be blocked by the Activin-binding protein Follistatin, and by the propeptide of Myostatin. Recombinant Human myostatin is a 25.0 kDa protein consisting of two identical 109 amino acid polypeptides linked by a single disulfide bond.

Biological Activity

Determined by its ability to inhibit the proliferation of MPC-11 cells. The expected ED_{50} for this effect is 17.0-25.0 ng/ml.

Authenticity

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin

Endotoxin level is <0.1 ng/ μ g of protein (<1 EU/ μ g).

Protein Content

Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage

-20°C

Precautions

Recombinant Human/Murine/Rat Myostatin is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human/Murine/Rat Myostatin - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

Recombinant Human/Murine/Rat Myostatin - Images