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Myostatin Human

Catalog #:CYPS-425

For research use only.

Description: 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.

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

Source: Escherichia Coli.

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

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

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 althoμgh 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 drμgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
It is recommended to reconstitute the lyophilized Myostatin in sterile 20mM HCl at 0.1 mg/ml, which can then be further diluted to other aqueous solutions.

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 thoμght to encode a secreted protein which negatively regulates skeletal muscle growth.

Biological Activity:
The ED50 as determined by the inhibition of the proliferation of MPC-11 cells is < 20ng/ml, corresponding to a Specific Activity of 50,000units/mg.

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