
Product Data Sheet

Product Name: Myostatin Human
Cat. No.: GP20759
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	GDF-8; MSTN; Growth Differentiation Factor 8; MSTN Muscle Hypertrophy.		
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.		
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.		
Formulation	Lyophilized from a concentrated (1mg/ml) solution containing no additives.		

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.

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.

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

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

Myostatin Human Recombinant produced in E.Coli is a homodimer, non-glycosylated polypeptide chain containing 2×10^9 amino acids and having a total molecular mass of 24814 Dalton. The GDF-8 is purified by proprietary chromatographic techniques.

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