9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Myostatin Human

Myostatin Human Recombinant
GRF0271

Product Overview

Name	Myostatin Human
Description	
Myostatin Human Recombinant	
Accession (Primary)	O14793
Synonyms	
GDF-8, MSTN, Growth Differentiation Factor 8, MSTN Muscle Hypertrophy.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
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°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.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
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.	
Biological Activity	
The ED50 as determined by the inhibition of the proliferation of MPC-11 cells is < 20ng/ml, corresponding to a Specific	

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Activity of 50,000units/mg.

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.

Protein content

Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 1.55 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of Myostatin as a Reference Standard.

Precautions

Myostatin Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O14793)