Datasheet for ABIN6700280

Myostatin Propeptide Protein

2 Images

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Overview

Quantity:	100 µg
Target:	Myostatin Propeptide
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Myostatin Propeptide Recombinant Protein
Purification:	Myostatin propeptide purity was determined to be greater than 95% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by its ability to inhibit 50 ng/mL of Myostatin on MPC-11 cells and is typically 0.01-0.04 µg/mL.

Target Details

Target:	Myostatin Propeptide
Background:	Synonyms: Myostatin Background: Myostatin (GDF-8), a member of the TGF-β superfamily, is a potent and specific negative regulator of skeletal muscle mass. The myostatin propeptide is known to bind and

Target Details

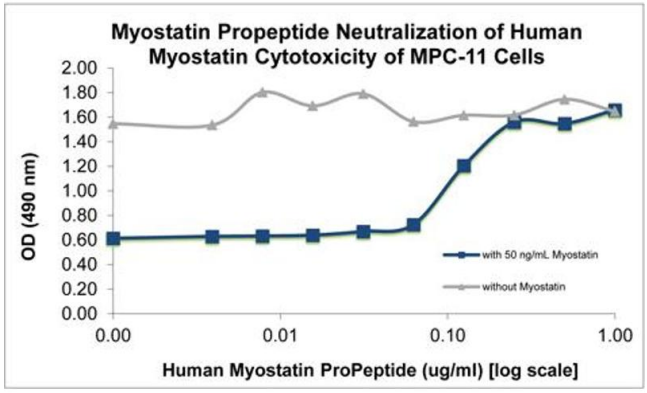
	inhibit myostatin in vitro. This interaction is relevant in vivo, with a majority (>70 %) of myostatin in serum bound to its propeptide acting as a negative regulator of myostatin. Recombinant human Myostatin Propeptide is a non-glycosylated protein, containing 244 amino acids, with a molecular weight of 27.8 kDa.
UniProt:	O08689

Application Details

Application Notes:	Other: User Optimized Application_Note: Myostatin Propeptide Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Myostatin Propeptide in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

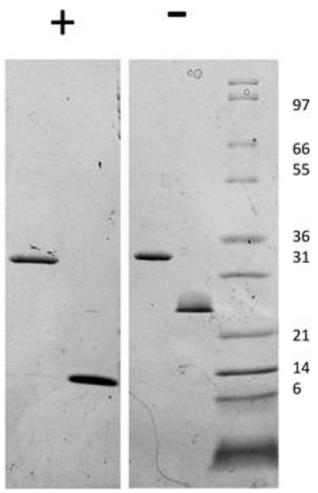
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: 0.02M HCl Reconstitution_Volume: 100 µL
Buffer:	Buffer: 0.1 % Trifluoroacetic acid Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiry Date:	6 months



SDS-PAGE

Image 1. SDS-PAGE of Human Myostatin Propeptide Recombinant Protein Bioactivity of Human Myostatin Propeptide Recombinant Protein. MPC-11 cells were cultured with 50 ng/mL Human Myostatin and serial dilutions of Human Myostatin Propeptide from 0-1 ug/mL. Cell proliferation was measured after 65 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 of Human Myostatin Propeptide is 0.09-0.14 ug/mL. This typical expected value for this activity is 10-40 ng/mL.



SDS-PAGE

Image 2. SDS-PAGE of Human Myostatin Propeptide Recombinant Protein SDS-PAGE of Human Myostatin Propeptide and Myostatin Recombinant Protein. Lane 1: 1 µg Human Myostatin Propeptide in reducing conditions (+). Lane 2: 1 µg Human Myostatin in reducing conditions (+). Lane 3: 1 µg Human Human Myostatin Propeptide in non-reducing conditions . Lane 4: 1 µg Human Human Myostatin in non-reducing conditions . Lane 5: Molecular weight marker. Human Myostatin Propeptide is predicted to be a disulfide-linked homodimer of 27.8 kDa and Myostatin is predicted to be a non-covalently linked homodimer with a MW of 25 kDa .