

Datasheet for ABIN6700276

MSTN Protein[Go to Product page](#)**1** Image

Overview

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

Product Details

Purpose:	Human Myostatin Recombinant Protein
Purification:	Myostatin 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 the inhibition of the proliferation of MPC-11 cells and is typically less than 20 ng/mL.

Target Details

Target:	MSTN
Alternative Name:	Mstn (MSTN Products)
Background:	Synonyms: GDF-8, Myostatin Background: Myostatin is a member of the TGF-β superfamily that is essential for proper

Target Details

regulation of skeletal muscle mass in a number of species ranging from fish to humans. Myostatin is a secreted protein that negatively regulates skeletal muscle mass determining both muscle fiber number and size. Inhibition of myostatin can increase muscle mass in a number of animal models of human disease, including muscular dystrophy. Recombinant human Myostatin is a non-glycosylated homodimer, containing two 109 amino acid chains, with a total molecular weight of 24.8 kDa.

UniProt: [O14793](#)

Application Details

Application Notes: Application Note: Myostatin Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Myostatin in immunological assays.
Other: User Optimized

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitution_Buffer: 0.02M HCl
Reconstitution_Volume: 100 µL

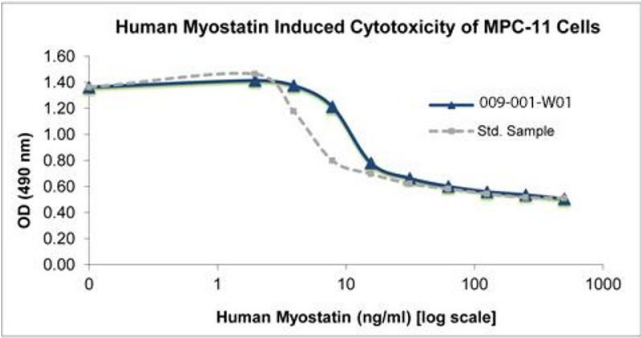
Buffer: Buffer: 0.1 % Trifluoroacetic acid
Stabilizer: None

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 Recombinant Protein Bioactivity of Human Myostatin Recombinant Protein. MPC-11 cells were cultured with 0 to 500 ng/mL Human Myostatin. Cell viability was measured after 66 hours and the linear portion of the curve was used to calculate the ED50. The ED50 of Human Myostatin is 9.6-14.4 ng/mL. This value is expected to be less than 20 ng/mL.