Datasheet for ABIN6699884

Follistatin Protein (FST)

2 Images

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Overview

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

Product Details

Purpose:	Mouse Follistatin Recombinant Protein
Purification:	Follistatin purity was determined to be greater than 90% as determined by analysis by reducing and non-reducing SDS-pAGE.
Purity:	90,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependent neutralization of 7.5 ng/mL human Activin A. Complete neutralization is typically reached at less than 0.3 ug/mL.

Target Details

Target:	Follistatin (FST)
Alternative Name:	Fst (FST Products)
Background:	Synonyms: FS, activin-binding protein, FSH-suppressing protein (FSP) Background: Follistatin is an autocrine acting protein that is expressed by many tissues, but at

Target Details

	noteably higher levels in the ovary and skin. Follistatin functions to negatively regulate the signaling of a wide variety of TGF-beta family members (activin, BMPs, myostatin, GDF-11 and TGF-beta 1). Mechanistically, follistatin works as an antagonist by complexing with TGF-beta family members to prevent them from interacting with their signaling receptors. Recombinant mouse follistatin is a non-glycosylated protein, containing 289 amino acids, with a molecular weight of 31.6 kDa.
UniProt:	P47931
Pathways:	Negative Regulation of Hormone Secretion

Application Details

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

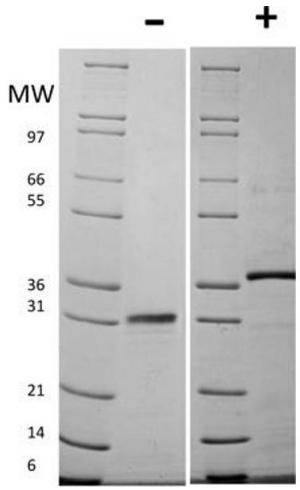
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 100 µL
Buffer:	Buffer Formulation: 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5.
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.

Handling

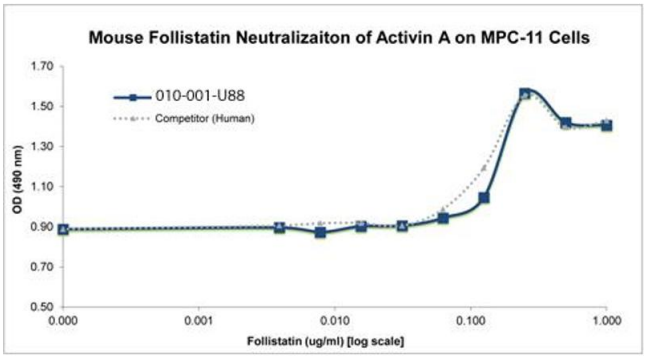
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Mouse Follistatin Recombinant Protein SDS-PAGE of Mouse Follistatin Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Mouse Follistatin in non-reducing conditions . Lane 3: Molecular weight marker. Lane 4: 1 µg Mouse Follistatin in reducing conditions (+). Mouse Follistatin has a predicted MW of 31.6 kDa.



SDS-PAGE

Image 2. SDS-PAGE of Mouse Follistatin Recombinant Protein Bioactivity of Mouse Follistatin Recombinant Protein. Serial dilutions of Mouse Follistatin (starting at 1 ug/mL) were mixed with 7.5 ng/mL human Activin A, then added to MCP-11 cells. After 69 hours cell proliferation was measured and the linear portion of the curve was us used to calculate the ED50. The ED50 of Mouse Follistatin is between 0.13-0.19 ug/mL. This value is comparable to the typically expected to be less than 0.3 ug/mL.