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Datasheet for 010-001-U88-1000

rMouse Follistatin Protein

Overview

Description:	Mouse Follistatin Recombinant Protein - 010-001-U88-1000
Item No.:	010-001-U88-1000
Size:	1 mg
Applications:	SDS-PAGE, Cellular Assay
Origin:	Mouse
Expressed in:	E. coli

Product Details

Background:	Follistatin is an autocrine acting protein that is expressed by many tissues, but at 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.
Synonyms:	FS, activin-binding protein, FSH-suppressing protein (FSP)
Species of Origin:	Mouse
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	Fst
Purity/Specificity:	Follistatin purity was determined to be greater than 90% as determined by analysis by reducing and non-reducing SDS-pAGE.
Relevant Links:	• UniProtKB - P47931

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	Cellular Assay (Based on references)
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. Buffer Formulation: 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein. Biologic Activity: 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.

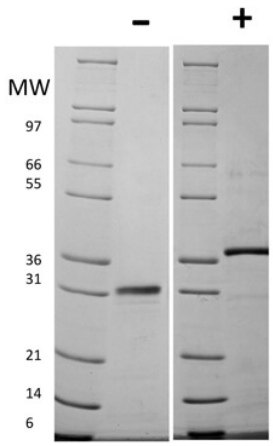
Formulation

Physical State:	Lyophilized
Buffer:	See application note.
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

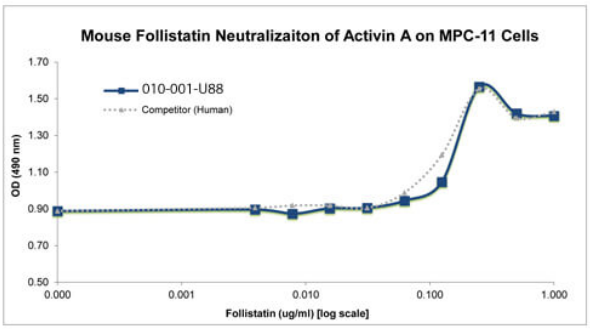
Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results 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.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE

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

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.

Disclaimer

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