

Fst

Recombinant Mouse Follistatin

Catalog No.	CS304A	Quantity:	5 µg
	CS304B		20 µg
	CS304C		1 mg
	CS304D		100 µg

Alternate Names: FST, FS, Activin-binding protein.

Description: Follistatin is an autocrine acting protein that is expressed by many tissues, but at notably 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.

Gene ID: 14313

UniProt ID: P47931

Source: *E. coli*

Molecular Weight: 31.6 kDa (289 aa) monomer

Formulation: Lyophilized from a sterile filtered solution of 10 mM Na₂PO₄, 50 mM NaCl, pH 7.5

Purity: ≥ 90% as determined by reducing and nonreducing SDS-PAGE

Endotoxin Level: ≤ 5 EU/µg by kinetic LAL analysis

Biological Activity: Typical ED₅₀ < 1µg/ml, by dose-dependent MCP-11 cell proliferation.

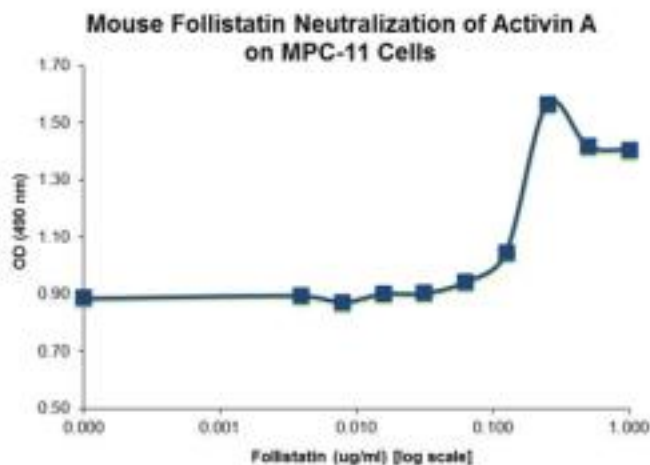
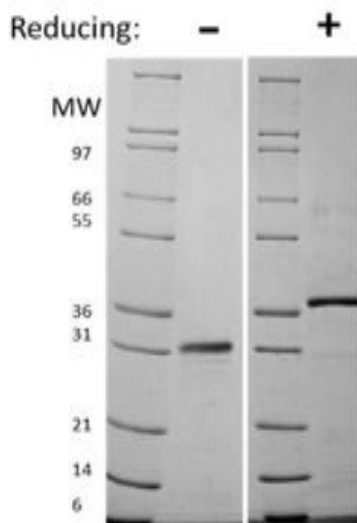
Amino Acid Sequence: MGNCWLRQAK NGRCQVLYKT ELSKEECCST GRLSTSWTEE DVNDNTLFWK
MIFNGGAPNC IPCKETCENV DCGPGKKCRM NKKNKPRVCV APDCSNITWK
GPVCGLDGKT YRNECALLKA RCKEQPELEV QYQ GKCKKTC RDVFCPGSST
CVVDQTNAY CVTCNRICPE PSSSEQYLCG NDGVTYSSAC HLRKATCLLG
RSIGLAYEGK CIKAKSCEDI QCGGGKCLW DSKVGRGRCS LCDELCPDSK
SDEPVCASDN ATYASECAMK EAACSSGVLL EVKHSGSCN

Reconstitution: **Centrifuge vial prior to opening.** When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Storage & Stability: Lyophilized product is stable at room temperature for shipping purposes. On receipt store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for one month at 2-8°C. For long term storage, aliquot and store at -20°C to -80°C with a carrier protein such as 0.1% HSA or BSA as a stabilizer. This depends upon the particular application employed. **Avoid repeated freeze-thaw cycles.**

SDS PAGE Gel: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel stained with Coomassie Blue. Mouse Follistatin has a predicted MW of 31.6 kDa.

Activity: Dilutions of Mouse Follistatin were mixed with 7.5 ng/ml human Activin A, then added to MPC-11 cells. After 69 hours, cell proliferation was measured. The ED50 was 0.13-0.19 ug/ml. This value is typically expected to be less than 0.3 ug/ml.



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