

Fst

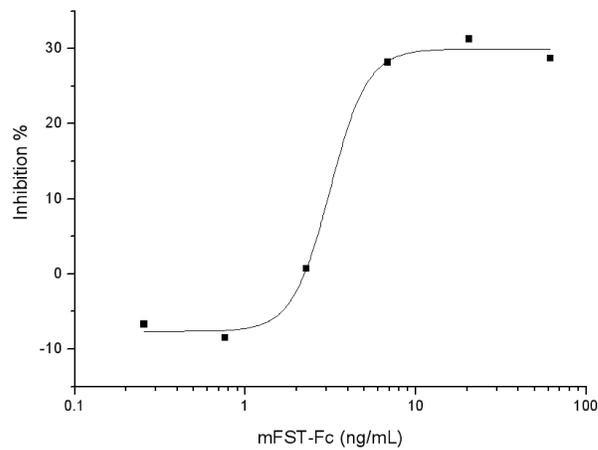
Recombinant Mouse Follistatin (isoform FS288, Fc Tag)

Catalog No.	CRM514A-Fc CRM514B-Fc	Quantity:	20 µg 50 µg
Alternate Names:	Follistatin, FS, Activin-binding protein		
Description:	Follistatin is a single-chain gonadal protein that specifically inhibits follicle-stimulating hormone release. The single FST human gene encodes two isoforms, FST317(FS288) and FST344 containing 317 and 344 amino acids respectively, resulting from alternative splicing of the precursor mRNA. In a study in which 37 candidate genes were tested for linkage and association with polycystic ovary syndrome (PCOS) or hyperandrogenemia in 15 families, evidence was found for linkage between PCOS and follistatin. follistatin are expressed and subserve local regulatory roles in numerous extragonadal tissues, including brain, adrenal, bone marrow, and placenta but perhaps most notably in anterior pituitary-the classical target tissue for inhibin, the activin-follistatin system may play a key role in early embryogenesis. Follistatin binds directly to activin and functions as an activin antagonist. Specific inhibitor of the biosynthesis and secretion of pituitary follicle stimulating hormone follistatin is a binding protein to activin. Since activin binds to follistatin, it is imperative to determine the nature of the activin/follistatin binding complex.		
UniProt ID:	P47931		
Protein Construction:	A DNA sequence encoding the mouse FST (Met 1-Asn 317) was expressed with the Fc region of human IgG1 at the C-terminus.		
Source:	CHO Stable Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The rmFST/Fc consists of 528 aa with a predicted MW of 58.4 kDa and migrates at ~66 kDa in SDS-PAGE under reducing conditions, due to glycosylation.		
Purity:	> 90 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED50 for this effect is typically 40-200 ng/mL in the presence of 10 ng/mL rhActivin A.		
Predicted N-terminal:	Gly 30		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		

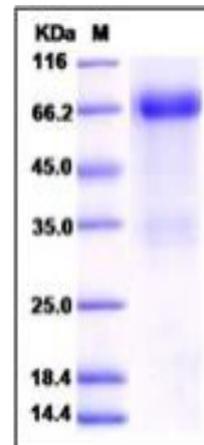


Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C .
Avoid repeated freeze-thaw cycles.

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SDS-PAGE



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