

Follistatin Active Protein | FST active protein

Follistatin Protein, Human, Recombinant (hFc Tag)

CATALOG #
AAA257910

HOST
HEK293 Cells

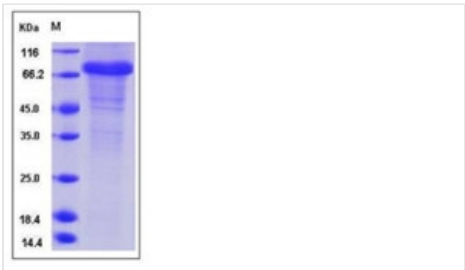
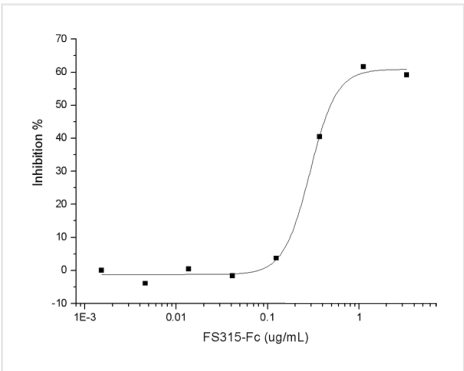
PRODUCT SYNONYMS

Follistatin; Follistatin Protein; Human; Recombinant (hFc Tag); Human Follistatin/FST Protein (Fc Tag); FS Protein; follistatin; FST active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>85% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Trp34 4
Species	Human
Activity	1. Measured by its ability to bind human INHBA-his in a functional ELISA. 2. Measured by its ability to bind mouse INHBA-his in a functional ELISA. 3. Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED50 for this effect is typically 0.5-3ug/mL in the presence of 10ng/mL Recombinant Human ctivin A.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Gly 30
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the human FST isoform FST344 (NP_037541.1)(Met 1-Trp 344) was fused with the Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation.
The ED50 for this effect is typically 0.5-3 ug/mL in the presence of 10 ng/ml Recombinant Human ctivin A.

ADDITIONAL INFORMATION

Related Product Information for FST active protein	Background: Follistatin is a single-chain gonadal protein that specifically inhibits follicle-stimulating hormone release. The single FST gene encodes two isoforms, FST317 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 150 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.
References	Carroll RS, et al. (1989) Inhibin, activin, and follistatin: regulation of follicle-stimulating hormone messenger ribonucleic acid levels. Mol Endocrinol. 3(12): 1969-76.Fainsod A, et al. (1997) The dorsalizing and neural inducing gene follistatin is an antagonist of BMP-4. Mech Dev. 63(1): 39-50.Kaiser UB, et al. (1992) Follistatin gene expression in the pituitary: localization in gonadotropes and folliculostellate cells in diestrous rats. Endocrinology. 130(5): 3048-56.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7242222
NCBI GeneID	10468
NCBI Accession #	NP_037541.1
NCBI GenBank Nucleotide #	NM_013409.2
UniProt Accession #	P19883; Q9BTH0; B5BU94
Molecular Weight	34,803 Da
NCBI Official Full Name	follistatin isoform FST344
NCBI Official Synonym Full Names	follistatin
NCBI Official Symbol	FST
NCBI Official Synonym Symbols	FS
NCBI Protein Information	follistatin; activin-binding protein; follistatin isoform FST317
UniProt Protein Name	Follistatin

UniProt Gene Name	FST
UniProt Synonym Gene Names	FS
UniProt Entry Name	FST_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-fst-active-protein/follistatin/257910>