

Active Recombinant Human FST protein, His-tagged

Cat. No. FST-6937H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human FST Protein (Met1-Asn317) is produced by HEK293 Cells expression system. This protein is fused with a His tag at the C-terminal.

Species Human

Source HEK293

ProteinLength Met1-Asn317

Description

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 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.

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Predicted N Terminal	Gly 30
Form	Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5 % mannitol and 0.01% Tween80.
Bio-activity	Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED50 for this effect is typically 0.2-1 µg/mL in the presence of 10 ng/ml Recombinant Human Activin A.
Molecular Mass	The secreted recombinant human FST (FS288) consists of 299 amino acids and has a predicted molecular mass of 33 kDa. As a result of glycosylation, rhFST (FS288) migrates as an approximately 45 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 90 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

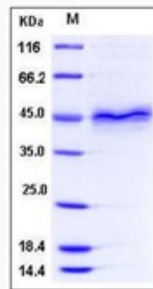
Gene Name [FST follistatin \[Homo sapiens \]](#)

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Official Symbol	FST
Synonyms	FST; follistatin; FS; activin-binding protein; follistatin isoform FST317;
Gene ID	10468
mRNA Refseq	NM_006350
Protein Refseq	NP_006341
MIM	136470
UniProt ID	P19883



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