

Active Recombinant Human FST Protein

Cat. No. FST-101H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FST Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Follistatin is an autocrine, activin-binding protein that is ubiquitously expressed with highest expression levels being in the ovary and skin. Follistatin negatively regulates the signaling of transforming growth factor beta (TGF- β) family members, such as activin, bone morphogenetic proteins (BMPs), myostatin, growth differentiation factor 11 (GDF-11), and TGF- β 1. Follistatin functions as an antagonist by binding TGF- β family members to block interaction with their signaling receptors. Follistatin also inhibits the secretion of follicle-stimulating hormone (FSH) from the anterior pituitary.
Bio-activity	Neutralization of Human Activin A induced cytotoxicity of MPC-11 cells, ≤ 200 ng/mL; $\geq 5.0 \times 10^3$ units/mg
Molecular Mass	Monomer, 31.7 kDa (289 aa)
AA Sequence	MGNCWLRQAKNGRCQVLYKTELSKEECCSTGRLSTSWTEEDVNDNTLFKWMIFNG GAPNCIPCKETCENVDCGPGKKCRMNKKNKPRCVCAPDCSNITWKGPPVCGLDGKT YRNECALLKARCKEQPELEVQYQGRCKKTCRDVFCPGSSSTCVVDQTNNAVCVTCN RICPEPASSEQYLCGNDGVITYSSACHLRKATCLLGRSIGLAYEGKCIKAKSCEDIQCT GGKKCLWDFKVGGRGRCSLCDELCPDSKSDEPVCASDNATYASECAMKEAACSSG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	VLLEVKHSGSCN
Endotoxin	≤1 EUs/μg, Kinetic LAL
Purity	≥95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	FST follistatin [Homo sapiens (human)]
Official Symbol	FST
Synonyms	FST; follistatin; FS; activin-binding protein; follistatin isoform FST317;

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Gene ID	10468
mRNA Refseq	NM_006350
Protein Refseq	NP_006341
MIM	136470
UniProt ID	P19883

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