Recombinant Human Follistatin

Cat. No. FST-1617H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human follistatinexpressed in*Sf*21 cells using a baculovirus expression system. And A DNA sequence encoding amino acid residues Gly 30 to Asp 329 of the human Follistatin precursor was fused to the signal peptide of human CD33, inserted into a suitable expression vector.
Species	Human
Source	Sf21 Cells
Description	Follistatin (FST) is a glycosylated single-chain protein. It specifically inhibits the secretion of FSH from the pituitary. Follistatin/activin-binding protein binds to heparan sulfate side chains of proteoglycans on the granulosa cell surface to regulate the various actions of activin. Follistatin regulates a variety of biological functions, including cell proliferation, differentiation, and apoptosis. Follistatin plays a critical role in the production of multiple-organ metastasis, predominantly by inhibiting the angiogenesis.
Molecular Weight	The predicted molecular weight of Recombinant Human FS is 31 kDa. However, the actual molecular weight as observed by migration on SDS Page is 40 kDa.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/μg as determined by the LAL method.

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

Biological Activity	The biological activity of Human FS was determined by its ability to neutralize Activin-induced bioactivity on K562 cells (erythroid differentiation). The expected ED50 for this effect is typically 0.1 - 0.4 µg/mL in the presence of 7.5 ng/mL of rhActivin A.

GENE INFORMATION

Gene Name	FST follistatin [Homo sapiens]
Synonyms	EFNA5; ephrin-A5; AF1; EFL5; RAGS; EPLG7; GLC1M; LERK7 ; eph-related receptor tyrosine kinase ligand 7; LERK-7; AL-1; LERK-7; ephrin-A5
Gene ID	10468
mRNA Refseq	NM_006350
Protein Refseq	NP_006341
MIM	136470
UniProt ID	P19883
Chromosome Location	5q11.2
Pathway	TGF-beta signaling pathway
Function	heparan sulfate proteoglycan binding; protein binding; signal transducer activity

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