Follistatin Active Protein | FST active protein

Human Follistatin Recombinant

CATALOG #	HOST
AAA76116	**HEk293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)**

PRODUCT SYNONYMS

Follistatin; Human Follistatin Recombinant; fst; follicle; follistatin; FST active protein

PRODUCT SPECIFICATIONS

Host	HEk293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant Human Follistatin was lyophillized at 1mg/ml containing no additives.
Sequence Length	317
Host Note	Optimized DNA sequence encoding Human follistatin mature chain was expressed in Hek293 cells.
Molecular Weight Note	Native human Follistatin, generated by the proteolytic removal of the signal peptide and propeptide, the molecule has a calculated mass of approximately 31 kDa. Recombinant Follistatin is a disulfide- linked monomer protein consisting of 296 amino acid residue subunits, due to glycosylation migrates as an approximately 45 kDa protein under non- reducing and reducing conditions in SDS-PAGE.
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Biological Activity	The ED(50) was determined by the ability to neutralize Activin A inhibitory effect of mouse MPC-11 and was determined to be 0.1-0.4 ug/ml in the presence of 7.5 ng/ml Activin A.
Edotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug)
Preparation and Storage	The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Upon reconstitution, this cytokine can be stored in working aliquots at 2-8°C for one month, or at -20°C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Product Categories/Family for FST active protein	Cytokines
References	• structure of myostatin·**follistatin**-like 3: n-terminal domains of **follistatin**-type molecules exhibit alternate modes of binding .*J. Biol. Chem., Jan 2012; 287: 1043 - 1053.* • *the type 1 insulin-like growth factor receptor (igf-ir) pathway is mandatory for the **follistatin**-induced skeletal muscle hypertrophy .Endocrinology, Jan 2012; 153: 241 - 253.* • *short-term energy deprivation alters activin a and **follistatin** but not inhibin b levels of lean healthy women in a leptin-independent manner .J. Clin. Endocrinol. Metab., Dec 2011; 96: 3750 - 3758.* • *the expression of activins, their type ii receptors and **follistatin** in human fallopian tube during the menstrual cycle and in pseudo-pregnancy .Hum. Reprod., Dec 2011; 26: 3346 - 3354.* • *energy deprivation alters in a leptin- and cortisol-independent manner circulating levels of activin a and **follistatin** but not myostatin in healthy males .J. Clin. Endocrinol. Metab., Nov 2011; 96: 3416 - 3423.*

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453652
NCBI GeneID	10468
NCBI Accession #	NP_006341.1
NCBI GenBank Nucleotide #	NM_006350.3
UniProt Accession #	P19883; Q9BTH0; B5BU94
NCBI Official Full Name	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/76116