

Active Recombinant Mouse Follistatin

Cat. No. Fst-560M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Fst protein was expressed in <i>Spodoptera frugiperda</i> , Sf 21 (baculovirus)-derived, with an N-terminus Met. Gly30-Asn317.
Species	Mouse
Source	<i>S. frugiperda</i>
Protein Length	30-317 a.a.
Description	Fst was initially identified as a follicle stimulating hormone inhibiting substance found in ovarian follicular fluid. It has since been shown that Fst is a high-affinity activin-binding protein that can act as an activin antagonist. Two alternatively spliced follistatin mRNAs, encoding mature FS with 288 amino acid (aa) residues (FS-288) and 315 aa residues (FS-315), exist.
Form	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA with BSA as a carrier protein.
N-terminal Sequence	Met
Molecular Weight	31 kDa
Activity	Measured by its ability to neutralize Activin-mediated erythroid differentiation of K562 human chronic myelogenous leukemia cells. The ED50 for this effect is typically 0.1-0.4 µg/mL in the presence of 7.5 ng/mL rhActivin A.

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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	35-40 kDa, reducing conditions
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 10 µg/mL in sterile PBS that containing at least 0.1% human or bovine serum albumin.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Fst follistatin [Mus musculus]
Official Symbol	Fst
Synonyms	Fst; follistatin; AL033346; FS; activin-binding protein
Gene ID	14313
mRNA Refseq	NM_008046
Protein Refseq	NP_032072
UniProt ID	P47931
Chromosome	13

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Location

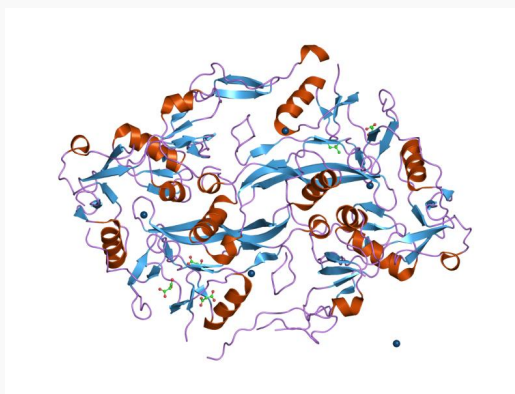
Pathway

TGF Beta Signaling Pathway

Function

activin binding; binding; heparin sulfateproteoglycan binding

**Structure of the
follistatin/actinic
complex based on
PDB 2b0u.**



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