

# Recombinant Rat Follistatin/FST Protein

Catalog No.: RP01893

## Sequence Information

**Species**      **Gene ID**  
Rat                24373

**Swiss Prot**    **Tags**  
P21674          C-His

### Synonyms

Fst, Follistatin, FS, Activin-binding protein

## Product Information

**Source**            **Purification**  
HEK293 cells    ≥ 90% as determined by SDS-PAGE.

**Calculated MW** **Observed MW**  
38.68 kDa        45–50 kDa

### Endotoxin

< 0.01 EU/μg of the protein by LAL method

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1–0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

Enables heparan sulfate proteoglycan binding activity. Predicted to be involved in hematopoietic progenitor cell differentiation; negative regulation of transcription by RNA polymerase II; and regulation of transmembrane receptor protein serine/threonine kinase signaling pathway. Predicted to act upstream of or within several processes, including animal organ development; keratinocyte proliferation; and positive regulation of hair follicle development. Predicted to be located in cytoplasm and nucleus. Predicted to be active in extracellular space. Human ortholog(s) of this gene implicated in polycystic ovary syndrome. Orthologous to human FST (follistatin).

## Basic Information

### Description

Recombinant Rat Follistatin/FST Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1–Trp344) of Rat Follistatin/FST (Accession #NP\_036693.1) fused with a His tag at the C-terminus.

### Activity

Measured by its ability to neutralize Activin-mediated inhibition on MPC-11 cell proliferation. The ED<sub>50</sub> for this effect is 23.68–94.70 ng/mL, corresponding to a specific activity of 1.06×10<sup>4</sup>~4.22×10<sup>4</sup> units/mg in the pre-se

### Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

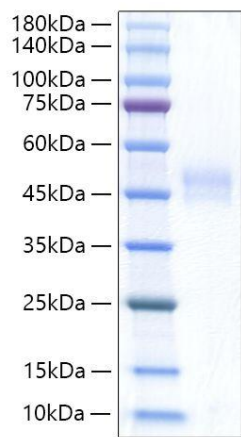
## Contact

☎ | 400-999-6126

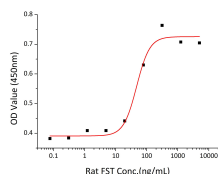
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## Validation Data



Recombinant Rat Follistatin/FST Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Rat Follistatin/FST Protein neutralize Activin-mediated inhibition on MPC-11 cell proliferation. The  $ED_{50}$  for this effect is 23.68-94.70 ng/mL, corresponding to a specific activity of  $1.06 \times 10^4 \sim 4.22 \times 10^4$  units/mg in the presence of 10 ng/mL Recombinant Human Activin A (Catalog: RP01782S).