

Recombinant Rat Follistatin/FST Protein

Catalog No.: RP01893 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Rat	24373	P21674

Tags

C-His

Synonyms

Fst;Follistatin; FS; Activin-binding protein

Product Information

Source	Purification
HEK293 cells	

Endotoxin

<0.01EU/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.

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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

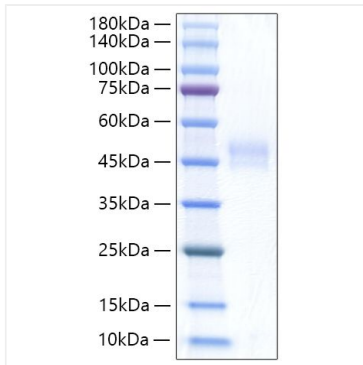
Recombinant Rat Follistatin/FST Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Trp344) of Rat Follistatin/FST (Accession #NP_036693.1) fused with a His tag at the C-terminus.

Bio-Activity

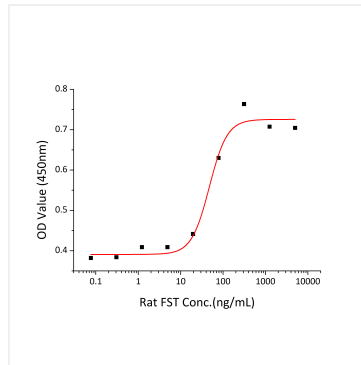
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Rat Follistatin/FST Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 45-50kDa.



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).