

**Product:** **Recombinant Human Follistatin**  
**Cat #: 300-199P**  
 Powder

Description	Follistatin is an autocrine acting protein that is expressed by many tissues, but at notably higher levels in the ovary and skin. Follistatin functions to negatively regulate the signaling of a wide variety of TGF-beta family members (activin, BMPs, myostatin, GDF-11 and TGF-beta 1). Mechanistically, follistatin works as an antagonist by complexing with TGF-beta family members to prevent them from interacting with their signaling receptors. Alternate names: FS, activin-binding protein, FSH-suppressing protein (FSP)
MW	Non-glycosylated protein, containing 289 amino acids, with a molecular weight of 31.7 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	<i>E. coli</i>
Formulation	Recombinant human Follistatin is lyophilized from 10 mM Na <sub>2</sub> PO <sub>4</sub> , pH 7.35 and 50 mM NaH <sub>2</sub> C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> (sodium citrate).
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity is determined by the dose-dependent neutralization of 7.5 ng/mL human Activin A. Complete neutralization is typically reached at less than 0.3 ug/mL.
Endotoxin Level	Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.
AA Sequence	MGNCWLRQAK NGRCQVLYKT ELSKEECST GRLSTSWTEE DVNDNTLFKW MIFNGGAPNC IPCKETCENV DCGPGKKCRM NKKNKPRCVC APDCSNITWK GPVCGLDGKT YRNECALLKA RCKEQPELEV QYQGRCKKTC RDVFCPGSST CVVDQTNAY CVTCNRICPE PASSEQYLCG NDGVTYSSAC HLRKATCLLG RSLGLAYEGK CIKAKSCEDI QCTGGKKCLW DFKVGRGRCS LCEDELCPDSK SDEPVCASDN ATYASECAMK EAACSSGVLL EVKHSGSCN

Purity greater than 95% determined by Reducing and Non-reducing SDS-PAGE.

Protein content determined by Reducing and Non-reducing SDS-PAGE.

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**