

# Recombinant Human Follistatin (rHuFollistatin)

## PrimeGene Technical Data Sheet

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<b>Catalog Number:</b>	108-16
<b>Source:</b>	<i>E.coli</i>
<b>Molecular Weight:</b>	Approximately 31.5 kDa, a single non-glycosylated polypeptide chain containing 288 amino acids.
<b>Quantity:</b>	5µg/20µg/1000µg
<b>AA Sequence:</b>	GNCWLRQAKN GRCQVLYKTE LSKEECCSTG RLSTSWTEED VNDNTLFKWM IFNGGAPNCI PCKETCENV D CGPGKKCRMN KKNKPRCVCA PDCSNITWKG PVCGLDGKTY RNECALLKAR CKEQPELEVQ YQGRCKKTCR DVFCPGSSTC VVDQTNNAAYC VTCNRICPEP ASSEQYLCGN DGVTYSSACH LRKATCLLGR SIGLAYEGKC IKAKSCEDIQ CTGGKKCLWD FKVGRGRCSL CDELCPDSKS DEPVCASDNA TYASECAMKE AACSSGVLE VKHSGSCN
<b>Purity:</b>	> 95 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	Testing in Progress.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 20mM Tris-HCl, pH 8.5, 150 mM NaCl.
<b>Endotoxin:</b>	Less than 1 EU/µg of rHuFollistatin as determined by LAL method.
<b>Reconstitution:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
<b>Shipping:</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li><li>● 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li></ul>
<b>Usage:</b>	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

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### ***Human Follistatin***

Follistatin (FS) was initially identified as a follicle-stimulating hormone inhibiting substance found in ovarian follicular fluid. It has since been shown that FS is a high-affinity activin-binding protein that can act as an activin antagonist. Three forms of FS, including FST288, FST303 and FST315, contain an N-terminal atypical TGF binding domain and three FS domains (FS1 - 3) that contain EGF-like and kazal-like motifs. Human FST288 cDNA encodes a 317 amino acid (aa) protein with a 29 aa signal sequence, and a 288 aa mature region. FST288 shares 97 - 99% aa identity with corresponding regions of mouse, rat, equine, ovine, porcine and bovine FST. FST288 shows the highest affinity for activins due to its extended configuration. Genetic deletion of FS in mice, or expression of only the FST288 form, is perinatally lethal due to defects of lung, skin and musculoskeletal system. Mice that express only the FST315 isoform survive, but exhibit defects in vascularization and female fertility.