

Recombinant Human Follistatin (rh FST)

Synonyms: FS, Activin-binding protein.

Introduction: Follistatin is a single-chain gonadal protein that specifically inhibits follicle-stimulating hormone release. The single FST gene encodes two isoforms, FST317 and FST344 containing 317 and 344 amino acids respectively, resulting from alternative splicing of the precursor mRNA. In a study in which 37 candidate genes were tested for linkage and association with polycystic ovary syndrome (PCOS) or hyperandrogenemia in 150 families, evidence was found for linkage between PCOS and Follistatin. Follistatin binds directly to Activin and functions as an Activin antagonist and is a specific inhibitor of the biosynthesis and secretion of pituitary follicle stimulating hormone (fsh).

Description: Recombinant human FST produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 288 amino acids and having a molecular mass of 31.5 kDalton. Rh FST is purified by proprietary chromatographic techniques.

Source: *E. Coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a concentrated (1mg/ml) solution containing no additives.

Solubility: It is recommended to reconstitute the lyophilized rh FST in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh FST although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by RP-HPLC and by SDS-PAGE.

Amino acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Gly-Asn-Cys-Trp-Leu.

Biological Activity: The activity is determined by the ability to neutralize Activin A inhibitory effect of mouse MPC-11 cells. The expected ED₅₀ is 100-400ng/ml, corresponding to a Specific Activity of 2,500-10,000units/mg in the presence of 7.5ng/ml Activin A.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	11344010
<i>medium</i>	20 µg	Cat.N°	11344014

ImmunoTools Excellent Quality - Advantageously priced

Gladiolenweg 2; 26169 Friesoythe; Germany
 phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, info@immunotools.com
www.immunotools.com