

Recombinant Mouse Follistatin

CATALOG #: 4718-20 20 µg
4718-100 100 µg
4718-1000 1 mg

LOT #: _____

SOURCE: *E. coli*

PURITY: ≥90% by SDS-PAGE

ENDOTOXIN LEVEL: ≤ 1 EU/µg protein

MOL. WEIGHT: 31.6 kDa

FORMULATION: Recombinant mouse Follistatin is lyophilized from 10 mM Na₂PO₄ + 50 mM NaCl, pH 7.5.

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.

STORAGE CONDITIONS:

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.

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. Recombinant mouse follistatin is a nonglycosylated protein, containing 289 amino acids, with a molecular weight of 31.6 kDa.

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 µg/mL.

FOR RESEARCH USE ONLY! Not to be used on humans.

AA Sequence:

MGNCWLRQAK NGRCQVLT KT ELSKEECCST GRLSTSWTEE DVNDNTLFWK
MIFNGGAPNC IPCKETCENV DCGPGKKCRM NKKNKPRVCV APDCSNITWK
GPVCGLDGKT YRNECALLKA RCKEQPELEV QYQGRCKKTC RDVFCPGSST
CVVDQTNNA Y CVTCNRICPE PASSEQYLCG NDGVTYSSAC HLRKATCLLG RSIGLAYEGK
CIKAKSCEDI QCTGGKKCLW DS

RELATED PRODUCTS:

- Follistatin, human recombinant (Cat. No. 4708-10, 20, 50, 1000)
- Follistatin Antibody (Cat. No. 5708-100)