Follistatin (human), (recombinant)

Follistatin is an autocrine acting protein that is expressed by many tissues, but at noteably higher levels in the ovary and skin. Follistatin functions to negatively regulate the signaling of a wide variety of TGF-β family members (activin, BMPs, myostatin, GDF-11 and TGF-β1). Mechanistically, follistatin works as an antagonist by complexing with TGF-β family members to prevent them from interacting with their signaling receptors.

Ordering Information

Order Online »

ALX-201-813-0020	20µg
ALX-201-813-0100	100µg

Manuals, SDS & CofA

View Online »

- Carrier-free

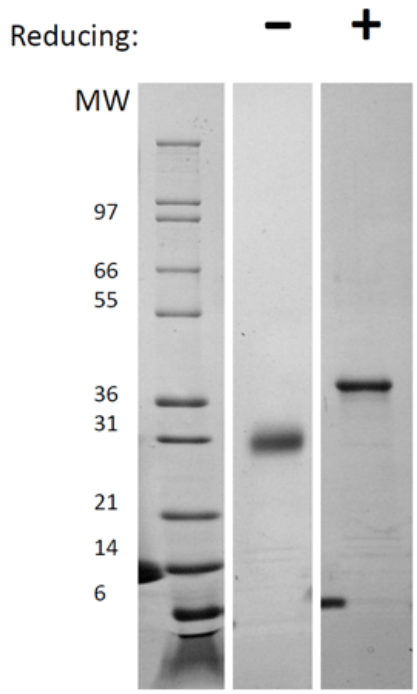

Figure 2: 1µg in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% TRIS-Glycine gel, stained with Coomassie Blue. Human Follistatin has a predicted MW of 31.7 kDa.

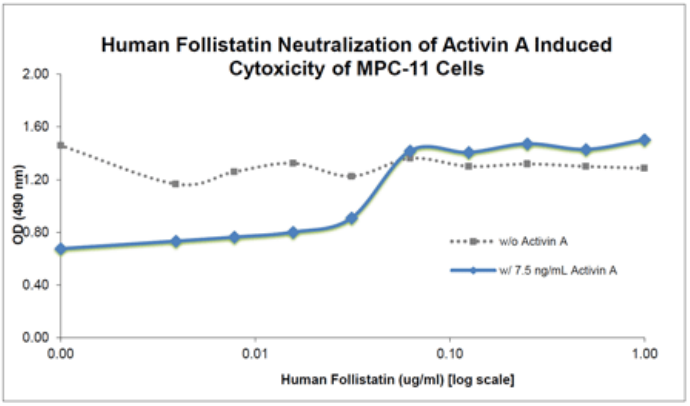

Figure 1: Human Follistatin Bioactivity Data. MPC-11 cells were cultured with 0 to 1µg/ml human Follistatin with our without 7.5ng/ml human Activin A. Cell viability was measured after 66 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 for this lot of human Follistatin was 30-50ng/ml. Complete neutralization is seen by 250ng/ml.

Handling & Storage

Use/Stability	It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Handling	Centrifuge the vial before opening the cap. After reconstitution, prepare aliquots and store at -20°C.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	FS, Activin-binding protein, FSH-suppressing protein
Appearance	White lyophilized (freeze-dried) powder.
Biological Activity	The activity is determined by the dose-dependent proliferation of mouse BALB/c 3T3 cells which is typically observed at concentations <0.1ng/ml.
Endotoxin Content	≤1 EU/μg protein measured by kinetic LAL analysis.
Formulation	Lyophilized from 10mM sodium phosphate and 50mM sodium chloride, pH 7.5, sterile filtered.
MW	~31.7kDa
Purity	≥95% (SDS-PAGE using Coomassie Staining)
Reconstitution	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.
Source	Produced in *E. coli*. Non-glycosylated protein, containing 289 amino acids.
UniProt ID	P19883

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