

For Research Use Only

# Recombinant Mouse FSTL1 protein (rFc Tag)



Catalog Number: Eg2859

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/  $\mu$ g protein, LAL method

**Source:**

HEK293-derived Mouse FSTL1 protein Glu19-Ile306 (Accession# P15144) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

14314

**Accession:**

Q62356

**Predicted Molecular Mass:**

58.5 kDa

**SDS-PAGE:**

65-75 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Follistatin-like 1 (FSTL1), initially discovered as a TGF- $\beta$  1-induced gene, encodes a 308 amino acid secreted 45-55 kDa glycoprotein with a follistatin domain and two non-functional calcium-binding motifs. FSTL1 has been reported to be involved in the fate determination and maturation of epithelial cells. Ablation of the FSTL1 gene in the mouse results in several structural-developmental defects and neonatal lethality due to respiratory failure, demonstrating its functional importance. FSTL1 has been reported to exhibit both pro- and anti-inflammatory actions, with a specific anti-apoptotic and protective effect in cardiac or renal cell injury. detected several isoforms of FSTL1 with molecular masses of 40 to 48 kD which differs from the 50- to 55-kD products detected.

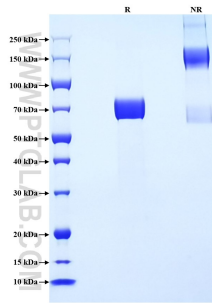
## References

1. Mouillet JF. et al. (2015). Placenta. 36(11):1231-8.
2. Sylva M. et al. (2013). Birth Defects Res C Embryo Today. 99(1):61-9.
3. Umez T. et al. (2010). Proc Natl Acad Sci U S A. 107(10):4601-6.

## Synonyms

Follistatin-like protein 1, Follistatin-related protein 1, Frp, Fstl, Fstl1

## Selected Validation Data



Purity of Recombinant Mouse Fstl1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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