

Catalog Number: Eg2605

Basic Information

Species:
Rat**Purity:**
>90 %, SDS-PAGE**Tag:**
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Rat FSTL1 protein Glu19-Ile306 (Accession# Q62632) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

79210

Accession:

Q62632

Predicted Molecular Mass:

58.6 kDa

SDS-PAGE:

60-80 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm 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-β 1-induced gene, encodes a 308 amino acid secreted 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.

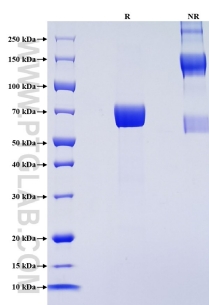
References

1. Mouillet JF, et al. (2015) Placenta. 36(11):1231-8.
2. Murakami K, et al. (2012) FEBS Lett. 17;586(4):319-24.
3. Sylva M, et al. (2013) Birth Defects Res C Embryo Today. 99(1):61-9.
4. Umezu T, et al. (2010) Proc Natl Acad Sci USA. 107(10):4601-6.

Synonyms

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

Selected Validation Data



Purity of Recombinant Rat 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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