

For Research Use Only

# Recombinant Human Surfactant protein D protein (rFc Tag)



Catalog Number: Eg4996

## Basic Information

**Species:**  
Human

**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 Human Surfactant protein D protein Ala21-Phe375 (Accession# P35247) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
6441

**Accession:**  
P35247

**Predicted Molecular Mass:**  
61.5 kDa

**SDS-PAGE:**  
65-80 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

Surfactant protein-D (SP-D) is a pattern recognition molecule of the collectin family of C-type lectins, which consist of four structural domains: a cysteine-rich N-terminal domain, a collagen-like region, an alpha-helical coiled-coil neck domain and a C-terminal lectin or carbohydrate-recognition domain. SP-D is primarily expressed and secreted by type II alveolar cells. It plays a central role in the pulmonary host defence and the modulation of allergic responses.

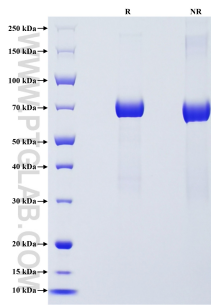
## References

1. Kishore U, et al. (2006) Mol Immunol. 43(9):1293-1315.
2. van de Wetering JK, et al. (2004) Eur J Biochem. 271(7):1229-1249.
3. Hartl D, et al. (2006) Eur J Clin Invest. 36(6):423-435.

## Synonyms

SFTPD, COLEC7, Collectin 7, Collectin-7, Lung surfactant protein D

## Selected Validation Data



Purity of Recombinant Human Surfactant protein D 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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