

# Recombinant human SP-D protein

Catalog Number: ATGP3747

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

22-375aa

### UniProt No.

P35247

### NCBI Accession No.

NP\_003010

### Alternative Names

Pulmonary surfactant-associated protein D, SFTPD, COLEC7, PSP-D, SFTP4, SP-D

## PRODUCT SPECIFICATION

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### Molecular Weight

36.5 kDa (363aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

SFTPD, also known as pulmonary surfactant-associated protein D, is a member of the collectin family of innate immune modulators. It contributes to the lung's defense against inhaled microorganisms, organic antigens and toxins. This protein interacts with compounds such as bacterial lipopolysaccharides, oligosaccharides and fatty acids and modulates leukocyte action in immune response. Recombinant human SFTPD protein, fused to His-tag

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at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

<ADP>EMKTYSH RTMP SACTLV MCSSVESGLP GRDGRD GREG PRGEKGD PGL PGAAGQAGMP GQAGPVGPKG  
DN GSVGEPGP KGDTGPSGPP GPPGVPGPAG REGPLGKQGN IG PQGKPGPK GEAGPKGEVG APGMQGSAGA  
RGLAGPKGER GVPGERGVPG NTGAAGSAGA MGPQGS PGAR GPPGLKGDKG IPGDKGAKGE SGLPDVASLR  
QQVEALQGQV QHLQA AFSQY KKVELFPNGQ SVGEKIFKTA GFVKPFTEAQ LLCTQAGGQL ASPR SAAENA ALQQLV VAKN  
EAAFLSMTDS KTEGKFTYPT GESLVYSNWA PGEPNDDGGS EDCVEIFTNG KW NDRACGEK RLVVCEF<HHH HHH>

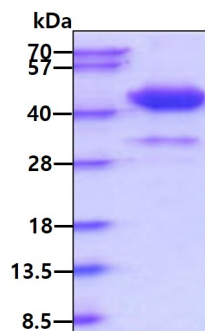
## General References

Soto-Cardenas MJ., et al, (2015) J Rheumatol. 42:111-118.

Sorensen GL., et al, (2016) Atherosclerosis. 246:7-12.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain