

## 32-13418: SFTPD Human, Sf9

### Alternative Name :

Surfactant Protein D, Lung Surfactant Protein D, Collectin-7, COLEC7, SFTP4, PSP-D, SP-D, Surfactant-Associated Protein, Pulmonary 4, Surfactant, Pulmonary-Associated Protein D, Pulmonary Surfactant-Associated Protein D, Pulmonary Surfactant Apoprotein, PSPD.

### Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

Surfactant pulmonary-associated protein D (SFTPD) belongs to the collectin family of C-type lectins, which is synthesized in many tissues including respiratory epithelial cells in the lung, and contains one C-type lectin domain and one collagen-like domain. SFTPD has humoral molecules of the innate immune system, and is deemed a functional candidate in chronic periodontitis. Moreover, SFTPD is involved in the development of acute and chronic inflammation of the lung. A number of human lung diseases are characterized by decreased levels of bronchoalveolar SFTPD. SFTPD contributes to the lungs defense against inhaled microorganisms, organic antigens and toxins. SFTPD interacts with complexes such as bacterial lipopolysaccharides, oligosaccharides and fatty acids and modulates leukocyte action in immune response. In addition, SFTPD participates in the extracellular reorganization or turnover of pulmonary surfactant. SFTPD binds strongly maltose residues and to a lesser extent other alpha-glucosyl moieties.

SFTPD produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 363 amino acids (22-375 a.a.) and having a molecular mass of 36.5kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa).SFTPD is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** SFTPD protein solution (0.25mg/ml) contains 10% glycerol & Phosphate Buffered Saline (pH 7.4).

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

**Amino Acid :** ADPEMKTYSH RTMPSACTLV MCSSVESGLP GRDGRDGREG PRGEKGDPLG PGAAGQAGMP  
GQAGPVGPKG DNGSVGEPGP KGDTGPGSGPP GPPGVPGPAG REGPLGKQGN IGPQGKPGPK  
GEAGPKGEVG APGMQGSAGA RLAGPKGER GVPGERGVPG NTGAAGSAGA  
GPQGSARGPPGLKGDKG IPGDKGAKGE SGLPDVASLR QQVEALQGQV QHLQAQFSQY KKVELFPNGQ  
SVGEKIFKTA GFVKPFTEAQ LLCTQAGGQL ASPRSAAENA ALQLLVAKN EAAFLSMTDS KTEGKFTYPT  
GESLVYSNWA PGEPNDDGGS EDCVEIFTNG KWNDRACGEK RLVVCEFHHA HHH.