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Datasheet for ABIN7520527 SFTPD Protein (His tag)

Overview

Quantity:	10 µg
Target:	SFTPD
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SFTPD protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Lung surfactant protein D/SFTPD Protein
Sequence:	AEMKSLSQRS VPNTCTLVMC SPTENGLPGR DGRDGREGPR GEKGDPLPG PMGLSGLQGP TGPVGPKGEN GSAGEPGPKG ERGLSGPPGL PGIPGPAGKE GPSGKQGNIG PQGKPGPKGE AGPKGEVGAP GMQGSTGAKG STGPKGERGA PGVQGAPGNA GAAGPAGPAG PQGAPGSRGP PGLKGDRGVP GDRGIKGESG LPDSAALRQQ MEALKGKLQR LEVAFSHYQK AALFPDGRSV GDKIFRTADS EKPFEFAQEM CKQAGGQLAS PRSATENAAI QQLITAHNKA AFLSMTDVG EGKFTYPTGE PLVYSNWAPG EPNNGGAEN CVEIFTNGQW NDKACGEQRL VICEF
Specificity:	Ala20-Phe374
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg

Target Details

Target:	SFTPD
Alternative Name:	Lung surfactant protein D/SFTPD (SFTPD Products)
Background:	<p>Description: Surfactant pulmonary-associated protein D, also known as SFTPD and SP-D, is a member of the collectin family of C-type lectins that is synthesized in many tissues including respiratory epithelial cells in the lung, and contains one C-type lectin domain and one collagen-like domain. The polymorphic variation in the N-terminal domain of the SP-D molecule influences oligomerization, function, and the concentration of the molecule in serum. SFTPD is produced primarily by alveolar type II cells and nonciliated bronchiolar cells in the lung and is constitutively secreted into the alveoli where it influences surfactant homeostasis, effector cell functions, and host defense. It is upregulated in a variety of inflammatory and infectious conditions including Pneumocystis pneumonia and asthma. SFTPD is humoral molecules of the innate immune system, and is considered a functional candidate in chronic periodontitis. Besides, it is involved in the development of acute and chronic inflammation of the lung. Several human lung diseases are characterized by decreased levels of bronchoalveolar SFTPD. Thus, recombinant SFTPD has been proposed as a therapeutical option for cystic fibrosis, neonatal lung disease and smoking-induced emphysema. Furthermore, SFTPD serum levels can be used as disease activity markers for interstitial lung diseases.</p> <p>Name: SP-D,Sfpd,Sftp4,AI573415,SFTPD</p>
Gene ID:	20390
UniProt:	P50404

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C

Handling

Storage Comment: Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.