

Datasheet for ABIN7318972

SFTPD Protein (Glu22Gly-Mutant) (His tag)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	SFTPD
Protein Characteristics:	Glu22Gly-Mutant
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SFTPD protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human SFTPD/SP-D Protein (Glu22Gly, His Tag)
Sequence:	Ala21-Phe375(Glu22Gly)
Characteristics:	Recombinant Human Pulmonary Surfactant-Associated Protein D is produced by our Mammalian expression system and the target gene encoding Ala21-Phe375(Glu22Gly)? is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	SFTPD
Alternative Name:	SFTPD/SP-D (SFTPD Products)

Target Details

Background:	<p>Background: Surfactant Pulmonary-Associated Protein D (SP-D) is a 43 kDa member of the collectin family of innate immune modulators. Its principal components consist of a collagen-like region and a C-terminal carbohydrate recognition domain (CRD), a structure that places it in a subset of pattern recognition proteins termed defense collagens. SP-D is constitutively secreted by alveolar lining cells and epithelium associated with tubular structures and induced in cardiac smooth muscle and endothelial cells. It binds both secreted and transmembrane proteins that transduce its function. It binds human neutrophil defensins, modulating influenza anti-viral defense. It binds MD-2/LY96, a secreted protein that cooperates with Toll-like receptors (TLRs) in the response of macrophages to bacterial lipopolysaccharides (LPS) or cell wall components. It also binds macrophage CD14 and TLRs directly, blocking binding of LPS and down-regulating TNF-α secretion. SP-D binding of both SIRPα and the calreticulin/CD91 complex on macrophages allows for a graded response to environmental challenge.</p> <p>Synonym: Pulmonary Surfactant-Associated Protein D, PSP-D, SP-D, Collectin-7, Lung Surfactant Protein D, SFTPD, COLEC7, PSPD, SFTP4,COLEC7,SFTP4</p>
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Molecular Weight:	36.5 kDa
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UniProt:	P35247
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from a 0.2 μ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
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Storage:	4 °C,-20 °C,-80 °C
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Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
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