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Recombinant human SP-D protein

Catalog Number: ATGP3747

PRODUCT INFORMATION

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

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)

ıag

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

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

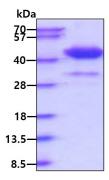
<ADP>EMKTYSH RTMPSACTLV MCSSVESGLP GRDGRDGREG PRGEKGDPGL PGAAGQAGMP GQAGPVGPKG DNGSVGEPGP KGDTGPSGPP GPPGVPGPAG REGPLGKQGN IGPQGKPGPK GEAGPKGEVG APGMQGSAGA RGLAGPKGER GVPGERGVPG NTGAAGSAGA MGPQGSPGAR GPPGLKGDKG IPGDKGAKGE SGLPDVASLR QQVEALQGQV QHLQAAFSQY KKVELFPNGQ SVGEKIFKTA GFVKPFTEAQ LLCTQAGGQL ASPRSAAENA ALQQLVVAKN EAAFLSMTDS KTEGKFTYPT GESLVYSNWA PGEPNDDGGS EDCVEIFTNG KWNDRACGEK 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

