

Recombinant human SP-D protein

Catalog Number: ATGP2731

PRODUCT INFORMATION

Expression system

E.coli

Domain

224-375aa

UniProt No.

P35247

NCBI Accession No.

NP_003010.4

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

18.9 kDa (175aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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, as known as Surfactant pulmonary-associated protein 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. It 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. Recombinant human SFTPD protein, fused to His-tag at N-terminus, was expressed in E.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>VASLRQQ VEALQGQVQH LQAAFSQYKK VELFPNGQSV GEKIFKTAGF
VKPFTEAQLL CTQAGGQLAS PRSAAENAAL QQLVVAKNEA AFLSMTDSKT EGKFTYPTGE SLVYSNWAPG EPNDDGGSED
CVEIFTNGKW NDRACGEKRL VVCEF

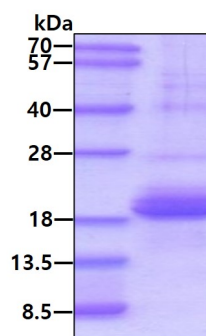
General References

Leth-Larsen R. et al. (2005) J Immunol. 174 : 1532-1538.

Hartl D. et al. (2006) Eur J Clin Invest. 36:423-435.

DATA

SDS-PAGE



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