

Recombinant Human SFTP A1 Protein, His-tagged

Cat. No. SFTP A1-1227H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SFTP A1 Protein (Glu21-Phe248) with His tag was expressed in 293F.
Species	Human
Source	HEK293
Protein Length	Glu21-Phe248
Description	This gene encodes a lung surfactant protein that is a member of a subfamily of C-type lectins called collectins. The encoded protein binds specific carbohydrate moieties found on lipids and on the surface of microorganisms. This protein plays an essential role in surfactant homeostasis and in the defense against respiratory pathogens. Mutations in this gene are associated with idiopathic pulmonary fibrosis.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 25.8 kDa; Accurate Molecular Mass: 38 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for

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48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Storage

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

Storage Buffer

20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

Reconstitution

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name

SFTPA1 surfactant protein A1 [Homo sapiens (human)]

Official Symbol

SFTPA1

Synonyms

SFTPA1; surfactant protein A1; SFTP1, surfactant, pulmonary associated protein A1; pulmonary surfactant-associated protein A1; COLEC4; SP A; SP A1; surfactant; pulmonary associated protein A1A; collectin-4; surfactant protein A1B; alveolar proteinosis protein; surfactant protein A1 variant AD 6A; surfactant protein A1 variant AD 6A2; surfactant protein A1 variant AD 6A3; surfactant protein A1 variant AD 6A4; surfactant protein A1 variant ACD 6A2; surfactant protein A1 variant ACD 6A3; surfactant protein A1 variant ACD 6A4; surfactant protein A1 variant ABD 6A2; surfactant protein A1 variant ABD 6A3; surfactant protein A1 variant ABD 6A4; surfactant, pulmonary-associated protein A1A; surfactant, pulmonary-associated protein A1B; 35 kDa pulmonary surfactant-associated protein; SPA; PSAP; PSPA; SP-A; SPA1; PSP-A; SFTP1; SP-A1; SFTPA1B; FLJ50593; FLJ51913; FLJ61144; FLJ77898; FLJ79095; FLJ99559; MGC133365; MGC198590;

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Gene ID	653509
mRNA Refseq	NM_001093770
Protein Refseq	NP_001087239
MIM	178630
UniProt ID	Q8IWL2
	