

Recombinant Human SFTPA1 Protein (21-248 aa), His-tagged

Cat. No. SFTPA1-2539H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SFTPA1 Protein (21-248 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Cell Biology. Protein Description: Full Length of Mature Protein.
Species	Human
Source	Yeast
ProteinLength	21-248 aa
Description	In presence of calcium ions, it binds to surfactant phospholipids and contributes to lower the surface tension at the air-liquid interface in the alveoli of the mammalian lung and is essential for normal respiration. Enhances the expression of MYO18A/SP-R210 on alveolar macrophages. (Microbial infection) Recognition of M.tuberculosis by dendritic cells may occur partially via this molecule. Can recognize, bind, and opsonize pathogens to enhance their elimination by alveolar macrophages.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	26.2 kDa
AA Sequence	EVKDVCVGSPGIPGTPGSHGLPGRDGRDGLKGDPGPPGPMGPPGEMPCPPGNDG LPGAPGIPGECGEKGEPGERGPPGLPAHLDEELQATLHDFRHQILQTRGALSLQGSI MTVGEKVFSSNGQSITFDAIQEACARAGGRIAVPRNPEENEAIASFVKKYNTYAYVG LTEGPSPGDFRYS DGTVPVNYTNWYRGEPAGRGKEQCVEMYTDGQWNDNRNCLYS

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Purity	> 85% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name	SFTPA1 surfactant protein A1 [Homo sapiens]
Official Symbol	SFTPA1
Synonyms	SFTPA1; surfactant protein A1; COLEC4; SP A; SP A1; collectin-4; SPA; PSAP; PSPA; SP-A; SPA1; PSP-A; SFTP1; SP-A1; SFTPA1B; FLJ50593; FLJ51913; FLJ61144; FLJ77898; FLJ79095; FLJ99559; MGC133365; MGC198590;
Gene ID	653509
mRNA Refseq	NM_001093770
Protein Refseq	NP_001087239

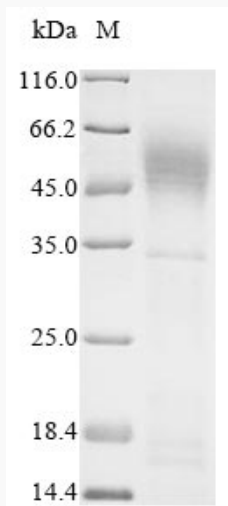
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MIM 178630

UniProt ID Q8IWL2



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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