

SFTP1 Protein, Human, Recombinant (B2M & His & Myc)

General Information

Synonyms:	Alveolar proteinosis protein;PSAP;PSPA;SFTP1;SP-A;PSP-A;Pulmonary surfactant-associated protein A1;SP-A1;SFTP1A1;SFTP1A1B;Collectin-4;COLEC4;35 kDa pulmonary surfactant-associated protein;SFTP1
Protein Construction:	21-248 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q8IWL2
Molecular Weight:	41.2 kDa (predicted)
AA Sequence:	<pre>EVKDVCVGGSPGIPGTPGSHGLPGRDGRDGLKGDPPGPPGMPGPPGEMPCPPGNDGLPGAPGIPGECGEKGEKGEKGERGPPGLPAHLDEELQATLHDFRHQILQTRGALSQQSIVTVGKVFSSNGQSITFDALQEQACARAGGRIAVP RNPEENEAIAFSVKKYNTYAYVGLTEGSPGDFRYSYDGTVPVNYTNWYRGEPAGRGKEQCVEMYTDGQWVND RNCLYSRLTICEF</pre>

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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

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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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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