

Recombinant Full Length Human SFTPC Protein

Cat. No. SFTPC-475HF Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant full length Human SFTPC with N terminal proprietary tag; Predicted MWt 47.41 kDa.

Species Human

Source In Vitro Cell Free System

ProteinLength 197 amino acids

Description This gene encodes the pulmonary-associated surfactant protein C (SPC), an extremely hydrophobic surfactant protein essential for lung function and homeostasis after birth. Pulmonary surfactant is a surface-active lipoprotein complex composed of 90% lipids and 10% proteins which include plasma proteins and apolipoproteins SPA, SPB, SPC and SPD. The surfactant is secreted by the alveolar cells of the lung and maintains the stability of pulmonary tissue by reducing the surface tension of fluids that coat the lung. Multiple mutations in this gene have been identified, which cause pulmonary surfactant metabolism dysfunction type 2, also called pulmonary alveolar proteinosis due to surfactant protein C deficiency, and are associated with interstitial lung disease in older infants, children, and adults. Alternatively spliced transcript variants encoding different protein isoforms have been identified.

Form Liquid

Molecular Mass 47.410kDa inclusive of tags

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AA Sequence	MDVGSKEVLMESPPDYSAAPRGRFGIPRCPVHLKRL LIVV VVVVLIVVVIVGALLMGL HMSQKHEMVL EMSGAPEAQQ RLALSEHLVTTATFSIGSTGLVVYDYQQLLIAYKP APGTC CYIMKIAPE SIPSLEALNRKVHNFQMECSLQAKPAVPTSK LGQAEGRDAGS APSGGDPAFLGMAVNTLCGEVPLYYI
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

Gene Name	SFTPC surfactant protein C [Homo sapiens]
Official Symbol	SFTPC
Synonyms	SFTPC; surfactant protein C; SFTP2, surfactant, pulmonary associated protein C; pulmonary surfactant-associated protein C; PSP C; SMDP2; SP C
Gene ID	6440
mRNA Refseq	NM_001172357
Protein Refseq	NP_001165828
MIM	178620
UniProt ID	P11686

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