Recombinant Human SFTPC

Cat. No. SFTPC-30425TH **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	Wheat Germ
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.
Molecular Weight	47.410kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MDVGSKEVLMESPPDYSAAPRGRFGIPRCPVHLKRLLIVV VVVVLIVVVIVGALLMGL HMSQKHTEMVLEMSIGAPEAQQ RLALSEHLVTTATFSIGSTGLVVYDYQQLLIAYKP APGTC CYIMKIAPESIPSLEALNRKVHNFQMECSLQAKPAVPTSK LGQAEGRDAGS APSGGDPAFLGMAVNTLCGEVPLYYI
Sequence Similarities	Contains 1 BRICHOS domain.

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

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Uniprot ID	P11686
Chromosome Location	8p21
Function	protein homodimerization activity;

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