

Recombinant Human SFTPC Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SFTPC-4700H Lot. No. (See product label)

SPECIFICATION

Product Overview	SFTPC MS Standard C13 and N15-labeled recombinant protein (NP_003009) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	<p>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.</p>
Molecular Mass	21.1 kDa
AA Sequence	MDVGSKEVLMESPPDYSAAPRGRFGIPCCPVHLKRLLVVVVVVLIVVVIVGALLMGL HMSQKHTHEMVLEMSIGAPEAQQRLALSEHLVTTATFSIGSTGLVVYDYQQLLIAYKP

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APGTCCYIMKIAPE SIPSLEALNRKVHNFQMECSLQAKPAVPTSKLGQAEGRDAGSA
PSGGDPAFLGMAVNTLCGEVPLYITRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name SFTPC surfactant protein C [Homo sapiens (human)]

Official Symbol SFTPC

Synonyms SFTPC; surfactant protein C; SFTP2, surfactant, pulmonary associated protein C; pulmonary surfactant-associated protein C; PSP C; SMDP2; SP C; SP5; pulmonary surfactant apoprotein-2 SP-C; pulmonary surfactant-associated proteolipid SPL(Val); SP-C; PSP-C; SFTP2;

Gene ID 6440

mRNA Refseq NM_003018

Protein Refseq NP_003009

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MIM	178620
UniProt ID	P11686

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