

Recombinant Human SFTPb protein, MYC/DDK-tagged

Cat. No. SFTPb-189H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SFTPb, transcript variant 2, fused with MYC/DDK tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
Description	This gene encodes the pulmonary-associated surfactant protein B (SPB), an amphipathic 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. The SPB enhances the rate of spreading and increases the stability of surfactant monolayers in vitro. Multiple mutations in this gene have been identified, which cause pulmonary surfactant metabolism dysfunction type 1, also called pulmonary alveolar proteinosis due to surfactant protein B deficiency, and are associated with fatal respiratory distress in the neonatal period. Alternatively spliced transcript variants encoding the same protein have been identified.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	39.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name SFTPB surfactant protein B [Homo sapiens]

Official Symbol SFTPB

Synonyms SFTPB; surfactant protein B; SFTP3, surfactant, pulmonary associated protein B; pulmonary surfactant-associated protein B; SP B; 6 kDa protein; 18 kDa pulmonary-surfactant protein; pulmonary surfactant-associated proteolipid SPL(Phe); SP-B; PSP-B; SFTB3; SFTP3; SMDP1;

Gene ID 6439

mRNA Refseq NM_198843

Protein Refseq NP_942140

MIM 178640

UniProt ID P07988

Chromosome Location 2p12-p11.2

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