

Recombinant Full Length Human SFTPB Protein, C-Flag-tagged

Cat. No. SFTPB-247HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SFTPB Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

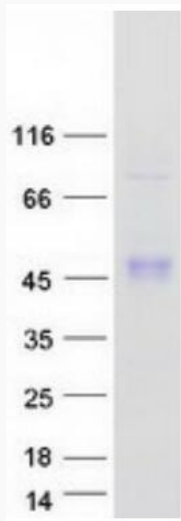
 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MAESHLQWLLLLLPTLCGPGTAAWTTSSLACAQGPEFWCQSLEQALQCRAIGHC LQEVWGHVVGADDLCQ ECEDIVHILNKMAKEAIFQDTMRKFLEQECNVLPKLLMPQ CNQVLDDYFPLVIDYFQNQTDSNGICMHL GLCKSRQPEPEQEPGMSDPLPKPLRD PLPDPLLDKLVLPVLPALQARPGPHTQDLSEQQFPIPLPYCWL CRALIKRIQAMIPK GALAVAVAQVCRVVPLVAGGICQCLAERYSVILLDTLLGRMLPQLVCRLVLRCSMD DSAGPRSPTGEWLPRDSECHLCMSVTTQAGNSSEQAIPQAMLQACVGSWLDREK CKQFVEQHTPQLLTLV PRGWDAAHTTCQALGVC GTMSSPLQCIHSPDLTRTRPLEQKLISEEDLAANDILDYKD DDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Secreted Protein
Full Length	Full L.
GENE INFORMATION	
Gene Name	SFTPB surfactant protein B [Homo sapiens (human)]
Official Symbol	SFTPB

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Synonyms	SP-B; PSP-B; SFTB3; SFTP3; SMDP1
Gene ID	6439
mRNA Refseq	NM_198843.3
Protein Refseq	NP_942140.3
MIM	178640
UniProt ID	P07988
 Coomassie blue staining of purified SFTP3 protein.	