

## Recombinant Full Length Human SFTPB Protein

Cat. No. SFTPB-472HF Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human Prosurfactant Protein B with an N-terminal proprietary tag, 67.98 kDa.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	381 amino acids
<b>Description</b>	<p>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.</p>
<b>Form</b>	Liquid
<b>Molecular Mass</b>	67.980kDa inclusive of tags

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

**AA Sequence**

MAESHELLQWLLLLLPTLCGPGTAAWTTSSLACAQGPEFWC QSLEQALQCRALGHC  
 LQEVWGHVVGADDLCQECEDIVHILN KMAKEAIFQDTMRKFLEQECNVLPLKLLMPQ  
 CNQVLDDYF PLVIDYFQNTDSNGICMHLGLCKSRQPEPEQEPGMSDPL PKPLRD  
 PLPDPLLDKLVLPVLPALQARPGPHTQDLSEQQ FPIPLPYCWLCRALIKRIQAMIPK  
 GALAVAVAQVCRVVPL VAGGICQCLAERYSVILLDTLLGRMLPQLVCRLVLRCSMD  
 DSAGPRSPTGEWLPRDSECHLCMSVTTQAGNSSEQAIPQA MLQACVGSWLDREK  
 CKQFVEQHTPQLLTLVPRGWAHTTC QALGVCMTSSPLQCIHSPDL

**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** SFTP3 surfactant protein B [ Homo sapiens ]

**Official Symbol** SFTP3

**Synonyms** SFTP3; surfactant protein B; SFTP3, surfactant, pulmonary associated protein B; pulmonary surfactant-associated protein B; SP B

**Gene ID** 6439

**mRNA Refseq** NM\_000542

**Protein Refseq** NP\_000533

**MIM** 178640

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UniProt ID

P07988

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