Recombinant Human SFTPB

Cat. No. SFTPB-30333TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Prosurfactant Protein B with an N-terminal proprietary tag, 67.98kDa.
Species	Human
Source	Wheat Germ
ProteinLength	381 amino acids
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.
Molecular Weight	67.980kDa 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	MAESHLLQWLLLLLPTLCGPGTAAWTTSSLACAQGPEFWC QSLEQALQCRALGHC LQEVWGHVGADDLCQECEDIVHILN KMAKEAIFQDTMRKFLEQECNVLPLKLLMPQ CNQVLDDYF PLVIDYFQNQTDSNGICMHLGLCKSRQPEPEQEPGMSDPL PKPLRD PLPDPLLDKLVLPVLPGALQARPGPHTQDLSEQQ FPIPLPYCWLCRALIKRIQAMIPK GALAVAVAQVCRVVPL VAGGICQCLAERYSVILLDTLLGRMLPQLVCRLVLRCSMD DSAGPRSPTGEWLPRDSECHLCMSVTTQAGNSSEQAIPQA MLQACVGSWLDREK CKQFVEQHTPQLLTLVPRGWDAHTTC QALGVCGTMSSPLQCIHSPDL
Sequence Similarities	Contains 1 saposin A-type domain.Contains 3 saposin B-type domains.

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;
Gene ID	6439
mRNA Refseq	NM_000542

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Protein Refseq	NP_000533
MIM	178640
Uniprot ID	P07988
Chromosome Location	2p12-p11.2

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