

Surfactant Protein B Recombinant Protein | SFTPb recombinant protein

Recombinant Human Surfactant Protein B

CATALOG # AAA38058	HOST HEK293 Cells
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PRODUCT SYNONYMS

Surfactant Protein B; Recombinant Human Surfactant Protein B; Surfactant Protein B Human Recombinant; Pulmonary surfactant-associated protein B; SP-B; 18 kDa pulmonary-surfactant protein; 6 kDa protein; Pulmonary surfactant-associated proteolipid SPL(Phe); SFTPb; SFTP3; SFTPb Human; SFTPb recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95.0% as determined by SDS-PAGE
Form/Format	SFTPb Filtered (0.4 um) and lyophilized from 0.5mg/ml solution in PBS and 5% trehalose (w/v), pH 7.4.
Sequence	WTTSSLACAQ GPEFWCQSLE QALQCRAIGH CLQEVWGHVG ADDLCQECED IVHILNKMAK EAIQDQTMRK FLEQECNVLP LKLLMPQCNQ VLDDYFPLVI DYFQNQTDN GICMHLGLCK SRQPEPEQEP GMSDPLPKPL RDPLPDPLLD KLVLPLPGA LQARPGPHQ DLSEQQFPIP LPYCWLCRAL IKRIQAMIPK GALAVAVAQV CRVVPLVAGG ICQCLAERYS VILLDTLLGR MLPQLVCRLV LRCSMDDSAG PRSPTGEWLP RDSECHLCMS VTTQAGNSSE QAIPQAMLQA CVGSWLDREK CKQFVEQHTP QLLTLVPRGW DAHTTCQALG VCGTMSSPLQ CIHSPDLHHH HHH
Sequence Length	393
Solubility	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely.
Physical Appearance	Filtered White Lyophilized (Freeze-Dried) Powder
Preparation and Storage	Store lyophilized protein at -20 degree C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4 degree C for a limited period of time; it does not show any change after two weeks at 4 degree C.

ADDITIONAL INFORMATION

Related Product Information for SFTPb recombinant protein	Introduction: SFTPb is an amphipathic surfactant protein critical for lung function and homeostasis after birth. Pulmonary surfactant is a surface-active lipoprotein complex composed of 90% lipids and 10% proteins which consist of plasma proteins and apolipoproteins SPA, SPB, SPC and SPD. Pulmonary surfactant-associated proteins support alveolar stability by lowering the surface tension at the air-liquid interface in the peripheral air spaces. The SPB improves the rate of spreading and increases the stability of surfactant monolayers in vitro. SPB increases the collapse pressure of palmitic acid to approximately 70 millinewtons per meter. Description: SFTPb Human Recombinant is a single, glycosylated polypeptide chain containing 363 amino acids (25-381a.a) and having a molecular mass of 40.4kDa (calculated). SFTPb is fused to a 6 a.a on C-terminal.
Product Categories/Family for SFTPb recombinant protein	Recombinant & Natural Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	288856299
NCBI GeneID	6439

NCBI Accession #	NP_000533.3
NCBI GenBank Nucleotide #	NM_000542.3
UniProt Accession #	P07988
NCBI Official Full Name	pulmonary surfactant-associated protein B
NCBI Official Synonym Full Names	surfactant protein B
NCBI Official Symbol	SFTPB
NCBI Official Synonym Symbols	SP-B; PSP-B; SFTB3; SFTP3; SMDP1
NCBI Protein Information	pulmonary surfactant-associated protein B
UniProt Protein Name	Pulmonary surfactant-associated protein B
UniProt Gene Name	SFTPB
UniProt Synonym Gene Names	SFTP3; SP-B
UniProt Entry Name	PSPB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/sftpb-recombinant-protein-hek293/38058>