9051 Mira Mesa Blvd, #910094
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SFTPB Human

Surfactant Protein B Human Recombinant
RCP2074

Product Overview

Name	SFTPB Human
Description	
Surfactant Protein B Human Recombinant	
Accession (Primary)	P07988
Synonyms	
Pulmonary surfactant-associated protein B, SP-B, 18 kDa pulmonary-surfactant protein, 6 kDa protein, Pulmonary surfactant-associated proteolipid SPL(Phe), SFTPB, SFTP3.	
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.	
Source	
HEK293 Cells.	
Physical Appearance	
Filtered White lyophilized (freeze-dried) powder.	
Formulation	
SFTPB filtered (0.4 µm) and lyophilized from 0.5mg/ml solution in PBS and 5% trehalose (w/v), pH 7.4.	
Stability	
Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
WTTSSLACAQ GPEFWCQSLE QALQCRALGH CLQEVWGHVG ADDLCQECED IVHILNKMAK EAIFQDTMRK	

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FLEQECNVLP LKLLMPQCNQ VLDDYFPLVI DYFQNQTDSN GICMHLGLCK SRQPEPEQEP GMSDPLPKPL RDPLPDPLLD KLVLPVLPGA LQARPGPHTQ DLSEQQFPIP LPYCWLCRAL IKRIQAMIPK GALAVAVAQV CRVVPLVAGG ICQCLAERYS VILLDTLLGR MLPQLVCRLV LRCSMDDSAG PRSPTGEWLPR DSECHLCMSV TTQAGNSSEQ AIPQAMLQAC VGSWLDREKC KQFVEQHTPQ LLTLVPRGWD AHTTCQALGV CGTMSSPLQC IHSPDLHHHHHH.

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.

Precautions

SFTPB Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P07988)