32-13413: SFTPB Human

Alternative Name : Pulmonary surfactant-associated protein B, SP-B, 18 kDa pulmonary-surfactant protein, 6 kDa protein, Pulmonary surfactant-associated proteolipid SPL(Phe), SFTPB, SFTP3.

Description

Source: HEK293 Cells.

Filtered White lyophilized (freeze-dried) powder.

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.

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). SFPTB is fused to a 6 a.a on C-terminal.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	SFTPB filtered (0.4 µm) and lyophilized from 0.5mg/ml solution in PBS and 5% trehalose (w/v), pH 7.4. 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.
Storage condition :	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.
Amino Acid :	WTTSSLACAQ GPEFWCQSLE QALQCRALGH CLQEVWGHVG ADDLCQECED IVHILNKMAK EAIFQDTMRK 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.