
Product Data Sheet

Product Name: SFTP Human
 Cat. No.: GP24556
 Batch No.: 1

Product Data

Purity	>98%	Source
Physical Appearance	solid	Shipping Condition

Synonyms Pulmonary surfactant-associated protein B; SP-B; 18 kDa pulmonary-surfactant protein; 6 kDa protein; Pulmonary surfactant-associated

Amino Acid Sequence WTTSSLACAQGPEFWCQSLEQALQCRALGHCLQEVDVGHVGGADDLCQECEDIVHILNKMAKEAIFQDTMRKFLEQECNVLPKLLMPQCNQVLDYFP

Solubility It is recommended to add 200µl deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized protein reconstitute for 1 hour at room temperature.
 Formulation SFTP filtered (0.4 µm) and lyophilized from 0.5mg/ml solution in PBS and 5% trehalose (w/v), pH 7.4.

Introduction

SFTP 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.

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 .

Background

SFTP 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA