

PRODUCT DATASHEET

Pulmonary Surfactant-Associated Protein B Human HEK293

Cat. No.: RD172520100

Type: Recombinant protein

Size: 0.1 mg

Source: HEK293

Species: Human

Description

Total 363 AA. MW: 40.4 kDa (calculated). UniProtKB acc. No. P07988 (Trp25–Leu381). C-terminal His-tag (6 extra AA). Protein identity confirmed by LC-MS/MS.

Other names

Surfactant Protein B; SP-B; 18 kDa pulmonary-surfactant protein; 6 kDa protein; Pulmonary surfactant-associated proteolipid SPL (Phe); SFTP3; Surfactant, Pulmonary-Associated Protein B; SMDP1; SFTB3

Research topic

Animal studies

Amino Acid sequence

WTTSSLACAQGPEFWCQSLEQALQCRAIGHCLQEVWGHVGGADLDCQECEDIVHILNKMAKEAIFQDTMRKFLEQECNVLPLKLLMPQ

Purity

Purity as determined by densitometric image analysis: > 95 %

Endotoxin

< 0.1 EU/ μ g

Formulation:

Filtered (0.4 μ m) and lyophilized from 0.5 mg/ml solution in phosphate buffered saline, 5% w/v trehalose pH 7,4.

Reconstituion:

Add 200 μ l of deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store lyophilized protein at -80°C . Lyophilized protein remains stable until the expiry date when stored at -80°C . Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.

Quality control

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

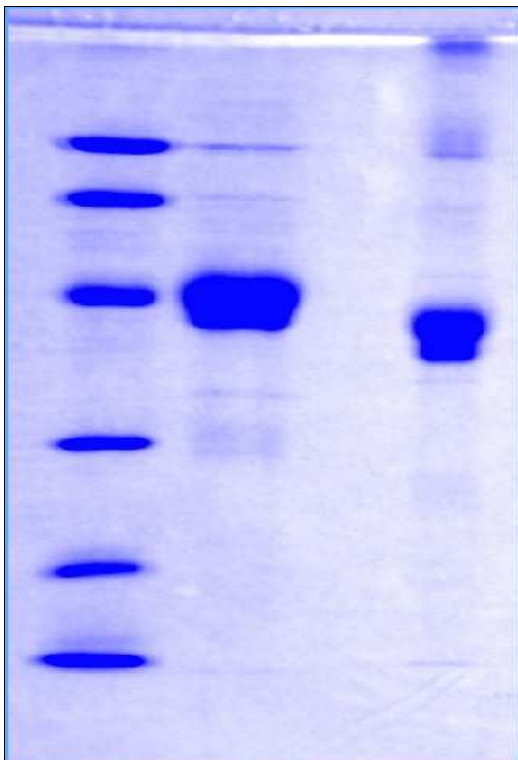
LAL to determine quantity of endotoxin.

Applications

ELISA, Western blotting

Note

This product is intended for research use only.



12 % SDS-PAGE separation of Human SP-B (HEK):
1. M.W. marker – 14, 21, 31, 45, 66, 97 kDa
2. Reduced and boiled sample, 2.5 $\mu\text{g}/\text{lane}$
3. Non-reduced and non-boiled sample, 2.5 $\mu\text{g}/\text{lane}$