A Reliable Research Partner in Life Science and Medicine

Recombinant Mouse SFTPD/SP-D Protein (His Tag)

Catalog Number: PKSM041282

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Species Mouse

Source HEK293 Cells-derived Mouse SFTPD/SP-D protein Ala20-Phe374, with an C-terminal

His

 Calculated MW
 36.7 kDa

 Observed MW
 42 kDa

 Accession
 P50404

Bio-activity Not validated for activity

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

ShippingThis product is provided as lyophilized powder which is shipped with ice packs.FormulationLyophilized from a 0.2 μm filtered solution of 20mM MES, 150mM NaCl, pH 7.4 .

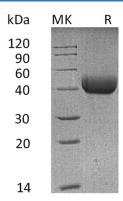
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



Background

Web:www.elabscience.com

E

Elabscience®

Elabscience Bionovation Inc.

A Reliable Research Partner in Life Science and Medicine

Pulmonary surfactant-associated protein D (SP-D) is a 43 kDa member of the collectin family of innate immune modulators. Mouse SP-D cDNA encodes a 19 aa signal sequence and a 355 aa mature region with a 25 aa N-terminal linking-region, a 177 aa hydroxyproline and hydroxylysine collagen-like domain, a 46 aa coiled-coil segment, and a 106 aa, C-terminal collectin-like C-type lectin domain . SP-D is found in serum, plasma, broncho-alveolar lavage (BAL) fluid, and amniotic fluid. It also binds SIRP alpha and the calreticulin/CD91 complex on macrophages. SP-D contributes to the lun g's defense against inhaled microorganisms, organic antigens and toxins. It Interacts with compounds such as bacterial lipopolysaccharides, oligosaccharides and fatty acids and modulates leukocyte action in immune response. It may participate in the extracellular reorganization or turnover of pulmonary surfactant. It binds strongly maltose residues and to a lesser extent other alpha-glucosyl moieties.

Toll-free: 1-888-852-8623 Web:www.elabscience.com Fax: 1-832-243-6017