

Recombinant Human Lung surfactant protein D/SFTPD(E22G) Protein

Catalog No.: RP00117 **Recombinant**

Sequence Information

Species Human **Gene ID** 6441 **Swiss Prot** P35247

Tags

C-His

Synonyms

SFTPD;COLEC7;PSP-D;SFTP4;SP-D

Background

The protein encoded by this gene is part of the innate immune response, protecting the lungs against inhaled microorganisms and chemicals. The encoded protein may also be involved in surfactant metabolism.

Basic Information

Description

Recombinant Human Lung surfactant protein D/SFTPD(E22G) Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ala21-Phe375 (Glu22Gly)) of human SFTPD/SP-D/SFTP4 (Accession #NP_003010.4) fused with a 6×His tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Product Information

Source HEK293 cells **Purification** ≥ 95 % as determined by SDS-PAGE.

Calculated MW 36.27 kDa **Observed MW** 40-50 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

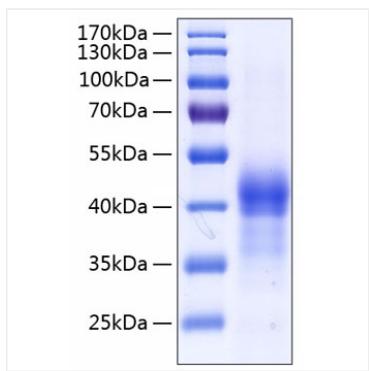
Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

Contact

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Validation Data



Recombinant Human Lung surfactant protein D/SFTP(E22G) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.