

Recombinant Human SFTPD Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50884

Size: 10ug, 100ug

Protein Name: Pulmonary surfactant-associated protein D (PSP-D) (SP-D) (Collectin-7)
(Lung surfactant protein D)

Synonym: SFTPD, COLEC7, PSPD, SFTP4

UniProt ID: P35247

UniProt Link: www.uniprot.org/uniprotkb/P35247/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 375 AA

Molecular Weight: 38 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLLFLLSALVLLTQPLGYLEAMKTYSHRTMP SACTLVMCSSVESGLPGRDGRDGREGPRGEKGD
GLPGAAGQAGMPGQAGPVGPKGDNGSVGE PGPKGDTGPSGPPGPPGVPGPAGREGPLGKQGN
IPQQKPGPKGEAGPKGEVGAPGMQGSAGAR LAGPKGERGVPGERGVPGNTGAAGSAGAMGP
QGSPGARGPPGLKGDKGIPGDKGAKGESGL PDVASLRQQVEALQGQVQHLQAAFSQYKKVELFPN
GQSVGEKIFKTAGFVKPFTEAQLLCTQAGG QLASPRSA AENAALQQLVVAKNEAAFLSMTDSKTEG
KFTYPTGESLVYSNWAPGEPNDDGGSEDCV EIFTNGKWNDRACGEKRLVVCEF

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Pulmonary surfactant-associated protein D (PSP-D) (SP-D) (Collectin-7) (Lung surfactant protein D) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Contributes to the lung's defense against inhaled microorganisms, organic antigens and toxins. Interacts with compounds such as bacterial lipopolysaccharides, oligosaccharides and fatty acids and modulates leukocyte action in immune response. May participate in the extracellular reorganization or turnover of pulmonary surfactant. Binds strongly maltose residues and to a lesser extent other alpha-glucosyl moieties.

Subcellular Localization: Secreted, extracellular space, extracellular matrix. Secreted, extracellular space, surface film.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.