

Recombinant Canine Pulmonary surfactant-associated protein A (SFTPA1), N-His

Cat. No.: AP1C58

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Canine Pulmonary surfactant-associated protein A (SFTPA1), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is N/A. The purity is >97% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Canine
Expression System	<i>E.coli</i>
Purity	>97% (SDS-PAGE)
Endotoxin	< 1 EU/µg
Predicted Molecular Weight	N/A
Physical State	Lyophilized
Formulation	The buffer before lyophilization is PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

Target Information

Canine pulmonary surfactant-associated protein A (SP-A) is a critical component of the innate immune system in the lungs. It plays a role in maintaining alveolar integrity, preventing alveolar collapse, and binding to several pathogens, enhancing the phagocytosis and chemotaxis of alveolar macrophages. SP-A is also involved in the regulation of inflammation and the prevention of lung infections, making it essential for pulmonary health.

Protein	Canine Pulmonary surfactant-associated protein A (SFTPA1)
Protein Synonym	PRL; SFTPA; PSAP; PSPA; SFTP; SPA; COLEC4; PSP-A; SFTP1; SFTPA1B; SP-A1; Collectin-4; Alveolar proteinosis protein; 35 kDa pulmonary surfactant-associated protein; Surfactant Associated Protein A
Gene ID	610540
UniProt ID	P06908

Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquote as needed and store at -80°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -80°C for 12 months.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Aliquote the reconstituted solution to minimise freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.