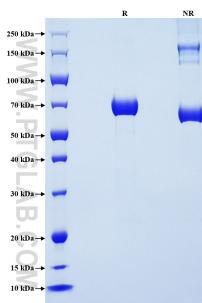


Recombinant Mouse Surfactant protein D protein (rFc Tag)

Catalog Number: Eg2924

Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications			
	Purity: >90 %, SDS-PAGE		
	Endotoxin Level: <0.1 EU/ µg protein, LAL method		
	Source: HEK293-derived Mouse Surfactant protein D protein Ala20-Phe374 (Accession# P50404) with a rabbit IgG Fc tag at the C-terminus.		
	GenelD: 20390		
	Accession: P50404		
	Predicted Molecular Mass: 61.7 kDa		
	SDS-PAGE: 67-75 kDa, reducing (R) conditions		
	Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity			
	Not tested		
Storage and Shipping			
	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.		
	<ul style="list-style-type: none"> Until expiry date, -20°C to -80°C as lyophilized proteins. 3 months, -20°C to -80°C under sterile conditions after reconstitution. 		
	Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution			
	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background			
	Surfactant Protein D (SP - D) is a pattern recognition molecule that belongs to the collectin family expressed in multiple human organ systems, including alveolar type II cells and Clara cells. The surfactant protein D - encoding gene (SFTP D) is located at the genomic position 10q22.2 - 23.1. SP - D plays an important role in the innate immune system by binding bacteria, viruses, fungi, and parasites for clearance via opsonization in phagocytes, as well as aiding in the removal of allergens.		
References			
	<ol style="list-style-type: none"> 1. Sorensen GL. (2018) Front Med. 5:18. 2. Sorensen GL, et al. (2014) J Pediatr. 165(4):683 - 689. 3. Wright JR. (2005) Nat Rev Immunol. 5(1):58 - 68. 		
Synonyms			
	Lung surfactant protein D, PSP-D, Pulmonary surfactant-associated protein D, Sftp4, SftpD		

Selected Validation Data



Purity of Recombinant Mouse Surfactant protein D was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.