

## ARG81518 Human Surfactant protein D ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81518-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81518-002	Standard	2 X 40 ng/vial	4°C
ARG81518-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81518-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81518-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81518-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81518-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81518-008	25X Wash buffer	20 ml	4°C
ARG81518-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81518-010	STOP solution	10 ml (Ready to use)	4°C
ARG81518-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81518 Human Surfactant protein D ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Surfactant protein D in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Surfactant protein D
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	312.5 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	625 - 40000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.3% Inter-Assay CV: 7.3%
Alternate Names	SP-D; COLEC7; Lung surfactant protein D; SFTP4; Pulmonary surfactant-associated protein D; PSP-D; Collectin-7

## Application Instructions

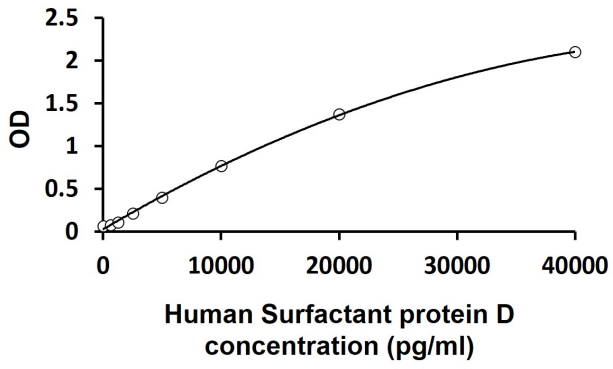
Assay Time	~ 5 hours
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## Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	SFTPD
Gene Full Name	surfactant protein 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. [provided by RefSeq, Jul 2015]
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. [UniProt]
Highlight	Related products: <a href="#">Surfactant protein D ELISA Kits</a> ; New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>
PTM	The N-terminus is blocked.  Hydroxylation on proline residues within the sequence motif, GXPG, is most likely to be 4-hydroxy as this fits the requirement for 4-hydroxylation in vertebrates.  S-nitrosylation at Cys-35 and Cys-40 alters the quaternary structure which results in a pro-inflammatory chemoattractive signaling activity with macrophages. [UniProt]



ARG81518 Human Surfactant protein D ELISA Kit standard curve image

ARG81518 Human Surfactant protein D ELISA Kit results of a typical standard run with optical density reading at 450 nm.