

## ARG81614 Human Serpin A5 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81614-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81614-002	Standard	2 X 10 ng/vial	4°C
ARG81614-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81614-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81614-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81614-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81614-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81614-008	25X Wash buffer	20 ml	4°C
ARG81614-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81614-010	STOP solution	10 ml (Ready to use)	4°C
ARG81614-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81614 Human Serpin A5 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Serpin A5 in serum, plasma (heparin, EDTA), urine and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Serpin A5
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (heparin, EDTA), urine and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 7.4% Inter-Assay CV: 8.7%
Alternate Names	Protein C inhibitor; PLANH3; Acrosomal serine protease inhibitor; PCI-B; Plasma serine protease inhibitor; Serpin A5; PCI; PROCI; PAI3; Plasminogen activator inhibitor 3; PAI-3

## 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.

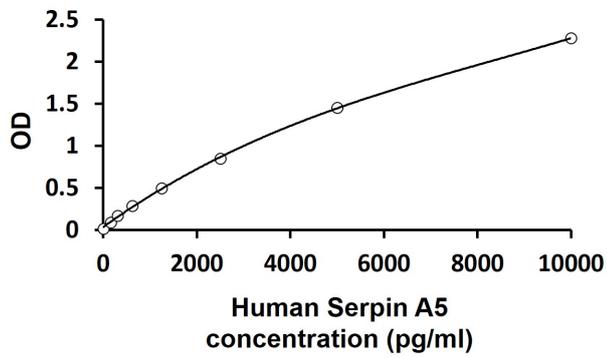
## Bioinformation

Gene Symbol	SERPINA5
Gene Full Name	serpin peptidase inhibitor, clade A (alpha-1 antitrypsin), member 5
Background	The protein encoded by this gene is a member of the serpin family of proteins, a group of proteins that inhibit serine proteases. This gene is one in a cluster of serpin genes located on the q arm of chromosome 14. This family member is a glycoprotein that can inhibit several serine proteases, including protein C and various plasminogen activators and kallikreins, and it thus plays diverse roles in hemostasis and thrombosis in multiple organs. [provided by RefSeq, Aug 2012]
Function	Heparin-dependent serine protease inhibitor acting in body fluids and secretions. Inactivates serine proteases by binding irreversibly to their serine activation site. Involved in the regulation of intravascular and extravascular proteolytic activities. Plays hemostatic roles in the blood plasma. Acts as a procoagulant and proinflammatory factor by inhibiting the anticoagulant activated protein C factor as well as the generation of activated protein C factor by the thrombin/thrombomodulin complex. Acts as an anticoagulant factor by inhibiting blood coagulation factors like prothrombin, factor XI, factor Xa, plasma kallikrein and fibrinolytic enzymes such as tissue- and urinary-type plasminogen activators. In seminal plasma, inactivates several serine proteases implicated in the reproductive system. Inhibits the serpin acrosin; indirectly protects component of the male genital tract from being degraded by excessive released acrosin. Inhibits tissue- and urinary-type plasminogen activator, prostate-specific antigen and kallikrein activities; has a control on the sperm motility and fertilization. Inhibits the activated protein C-catalyzed degradation of SEMG1 and SEMG2; regulates the degradation of semenogelin during the process of transfer of spermatozoa from the male reproductive tract into the female tract. In urine, inhibits urinary-type plasminogen activator and kallikrein activities. Inactivates membrane-anchored serine proteases activities such as MPRSS7 and TMPRSS11E. Inhibits urinary-type plasminogen activator-dependent tumor cell invasion and metastasis. May also play a non-inhibitory role in seminal plasma and urine as a hydrophobic hormone carrier by its binding to retinoic acid. [UniProt]
Highlight	Related products: <a href="#">Serpins antibodies</a> ; <a href="#">Serpins ELISA Kits</a> ; New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>
PTM	N- and O-glycosylated. N-glycosylation consists of a mixture of sialylated bi- (including sialyl-Lewis X epitopes), tri- and tetra-antennary complex-type chains; affects the maximal heparin- and thrombomodulin-enhanced rates of thrombin inhibition. O-glycosylated with core 1 or possibly core 8 glycans. Further modified with 2 sialic acid residues.  Proteolytically cleaved. Inhibition of proteases is accompanied by formation of a stable enzyme-inhibitor complex and by degradation of the serpin to lower molecular weight derivatives.

Proteolytically cleaved at the N-terminus; inhibits slightly the heparin- and thrombomodulin-enhanced rates of thrombin inhibition. [UniProt]

## Images

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ARG81614 Human Serpin A5 ELISA Kit standard curve image

ARG81614 Human Serpin A5 ELISA Kit results of a typical standard run with optical density reading at 450 nm.