

# Human Plasma serine protease inhibitor (SERPINA5) ELISA Kit



Catalog No: #EK7383

Orders: order@signalwayantibody.com

Package Size: #EK7383-1 48T #EK7383-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human Plasma serine protease inhibitor (SERPINA5) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	PAI3; PCI; PLANH3; PROCI; plasminogen activator inhibitor III plasminogen activator inhibitor-3 serine (or cysteine) proteinase inhibitor; clade A (alpha-1 antiproteinase; antitrypsin); member 5
Accession No.	Q9N212
Uniprot	Q9N212
GeneID	338050;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.  The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

## Application Details

Detect Range:31.25-2000 pg/mL

Sensitivity:13.7 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate SERPINA5 in samples. An antibody specific for SERPINA5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SERPINA5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SERPINA5 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SERPINA5 bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**Protein C inhibitor (PCI, SERPINA5) is a serine protease inhibitor (serpin) which limits the expression of protein C. Suzuki et al. (1987) determined the sequence of cDNA for human protein C inhibitor (PCI). A high degree of homology of the deduced amino acid sequence to that of other known inhibitors clearly demonstrated that protein C inhibitor is a member of the superfamily of serine protease inhibitors including alpha-1-antichymotrypsin (AACT), alpha-1-antitrypsin (AAT; PI), antithrombin III (AT3), and angiotensinogen (AGT). Protein C inhibitor is sometimes referred to as plasminogen activator inhibitor-3 (PAI3) because it also inhibits plasminogen activators (Meijers and Chung, 1991). Plasminogen activator inhibitor-1 (PAI1) has structural similarities to PCI.

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Note: This product is for in vitro research use only