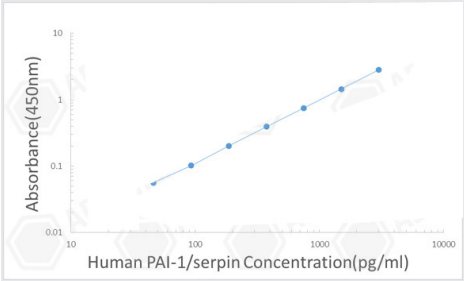
PAI-1/Serpin E1 (PAI-1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	PAI-1/Serpin E1, ELISA Kit
Full Product Name	Human PAI-1/Serpin E1 ELISA Kit
Product Gene Name	PAI-1 elisa kit
Product Synonym Gene Name	SERPINE1
Species Reactivity	Human
Assay Type	Sandwich ELISA
Samples	Cell Culture Supernatant, Serum, Plasma (EDTA, Citrate, Heparin)
Detection Range	46.8-3000 pg/mL
Sensitivity	24 pg/mL
Preparation and Storage	Store at 4 degree C.
Molecular Weight	43,404 Da
3D Structure	ModBase 3D Structure for P05121
Detection	Colorimetric
Conjugate	HRP
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PAI-1 elisa kit	Product Overview: The ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of samples in cell culture supernatant, serum, plasma (EDTA, citrate, heparin). Intended Use: This Human PAI-1/Serpin E1 ELISA kit is intended for laboratory research use only. The stop solution changes color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration of Human PAI-1/Serpin E1 in the sample, this Human PAI-1/Serpin E1 ELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of optical density versus Human PAI-1/Serpin E1 concentration. The concentration of the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of PAI-1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PAI-1 purchase	MBS9135838 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the PAI-1/Serpin E1, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PAI-1. The ELISA analytical biochemical technique of the MBS9135838 kit is based on PAI-1 antibody-PAI-1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PAI-1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PAI-1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve of PAI-1 elisa kit
Human PAI-1/Serpin E1 ELISA Kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAI-1. It may not necessarily be applicable to this product.

NCBI GI #	10835159
NCBI GeneID	5054
NCBI Accession #	NP_000593.1
UniProt Primary Accession #	P05121
UniProt Secondary Accession #	B7Z4S0; F8WD53
UniProt Related Accession #	P05121
GenBank Nucleotide #	NM_000602.4
NCBI Official Full Name	plasminogen activator inhibitor 1
NCBI Official Synonym Full Names	serpin family E member 1
NCBI Official Symbol	SERPINE1
NCBI Official Synonym Symbols	PAI; PAI1; PAI-1; PLANH1
UniProt Protein Name	Plasminogen activator inhibitor 1
UniProt Synonym Protein Names	Endothelial plasminogen activator inhibitor; Serpin E1
UniProt Gene Name	SERPINE1
UniProt Synonym Gene Names	PAI1; PLANH1; PAI; PAI-1
NCBI Protein Information	plasminogen activator inhibitor 1
NCBI Summary for PAI-1	This gene encodes a member of the serine proteinase inhibitor (serpin) superfamily. This member is the principal inhibitor of tissue plasminogen activator (tPA) and urokinase (uPA), and hence is an inhibitor of fibrinolysis. Defects in this gene are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1 deficiency), and high concentrations of the gene product are associated with thrombophilia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]
UniProt Comments for PAI-1	Serine protease inhibitor. Inhibits TMPRSS7 (PubMed:15853774). Is a primary inhibitor of tissue-type plasminogen activator (PLAT) and urokinase-type plasminogen activator (PLAU). As PLAT inhibitor, it is required for fibrinolysis down-regulation and is responsible for the controlled degradation of blood clots (PubMed:8481516, PubMed:9207454, PubMed:17912461). As PLAU inhibitor, it is involved in the regulation of cell adhesion and spreading (PubMed:9175705). Acts as a regulator of cell migration, independently of its role as protease inhibitor (PubMed:15001579, PubMed:9168821). It is required for stimulation of keratinocyte migration during cutaneous injury repair (PubMed:18386027). It is involved in cellular and replicative senescence (PubMed:16862142). Plays a role in alveolar type 2 cells senescence in the lung (). Is involved in the regulation of cementogenic differentiation of periodontal ligament stem cells, and regulates odontoblast differentiation and dentin formation during odontogenesis (PubMed:25808697, PubMed:27046084).
Research Articles on PAI-1	**1.** results of study have not shown that individual genetic variation in PAI-1 is an independent variable that predispose same of children for renal scarring after first febrile urinary tract infection

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