

Human Kallistatin/Serpina4 ELISA Kit | SERPINA4 elisa kit

Human Kallistatin/Serpina4 PicoKine ELISA Kit

CATALOG #
AAA45804

REACTIVITY
Human

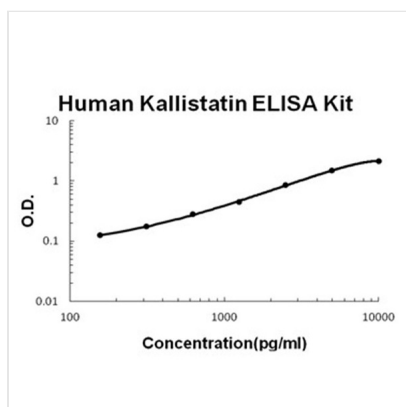
PRODUCT SYNONYMS

Kallistatin/Serpina4; Human Kallistatin/Serpina4 PicoKine ELISA Kit; Kallistatin; serpin peptidase inhibitor; clade A (alpha-1 antiproteinase; antitrypsin); member 4; KAIN_HUMAN; KAL; Kallikrein binding protein; Kallikrein inhibitor; KBP; KLST; KST; MGC108582; Peptidase inhibitor 4; PI-4; PI4; Protease inhibitor 4 (kallistatin); Protease inhibitor 4; Serine (or cysteine) proteinase inhibitor; clade A (alpha 1 antiproteinase; Serpin A4; Serpin peptidase inhibitor clade A member 4; Serpin peptidase inhibitor; SERPINA4; Tissue kallistatin inhibitor; SERPINA4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Kallistatin
Sequence Length	427
Samples	Cell culture supernates, serum and plasma (heparin, EDTA)
Assay Type	Sandwich
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human Kallistatin/Serpina4 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for SERPINA4 elisa kit

Principle of the assay: human Kallistatin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Kallistatin has been precoated onto 96-well plates. Standards(NSO, Q21-P427) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Kallistatin is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Kallistatin amount of sample captured in plate.

Background: Serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 4, also called Kallistatin, is a protein that in humans is encoded by the SERPINA4 gene. This gene is mapped to chromosome 14q32.13. Kallistatin is a serine proteinase inhibitor (serpin) and a heparin-binding protein. It is localized in vascular smooth muscle cells and endothelial cells of blood vessels, suggesting that it may be involved in the regulation of vascular function. It shows that kallistatin plays a role in neointima hyperplasia. The potential role of kallistatin was investigated in angiogenesis in vitro and in vivo, and presented results demonstrating a novel role of the protein in the inhibition of angiogenesis and tumor growth.

NCBI AND UNIPROT INFORMATION

NCBI GI #	68067608
NCBI GeneID	5267
UniProt Accession #	P29622; Q53XB5; Q86TR9; Q96BZ5
Molecular Weight	48,542 Da
NCBI Official Full Name	Kallistatin
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 4
NCBI Official Symbol	SERPINA4
NCBI Official Synonym Symbols	KAL; KST; PI4; KLST; PI-4; kallistatin
NCBI Protein Information	kallistatin; serpin A4; kallikrein inhibitor; peptidase inhibitor 4; protease inhibitor 4 (kallistatin); serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 4
UniProt Protein Name	Kallistatin
UniProt Gene Name	SERPINA4
UniProt Synonym Gene Names	KST; PI4; PI-4
UniProt Entry Name	KAIN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/kallistatin-serpina4/45804>