

Human Elafin/PI3 ELISA Kit | PI3 elisa kit

Human Elafin/PI3 PicoKine ELISA Kit

CATALOG #
AAA11610

REACTIVITY
Human

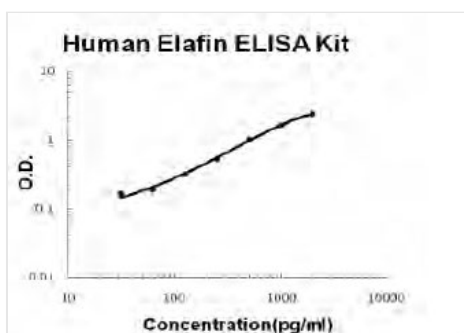
PRODUCT SYNONYMS

Elafin/PI3; Human Elafin/PI3 PicoKine ELISA Kit; Elafin; peptidase inhibitor 3; skin-derived; Cementoin; Elastase specific inhibitor; ESI; MGC13613; Peptidase inhibitor 3; Peptidase inhibitor 3 skin derived; PI 3; PI3; Pre elafin; Protease inhibitor WAP3; SKALP; Skin derived antileukoproteinase; Trappin 2; WAP four disulfide core domain 14; WAP four disulfide core domain protein 14; WAP3; WFDC14; PI3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human PI3
Sequence Length	117
Samples	Cell culture supernates, cell lysates, serum and plasma (heparin, edta)
Detection Range	31.2pg/ml-2000pg/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 across assays):Three samples of known concentration were tested in separate assays to assess interassay 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)

ADDITIONAL INFORMATION

Related Product Information for PI3 elisa kit	Principle of the Assay: The Picokine™ Human PI3 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human PI3 with a 96-well strip plate that is pre-coated with antibody specific for PI3. The detection antibody is a biotinylated antibody specific for PI3. The capture antibody is monoclonal antibody from mouse, the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human PI3 with immunogen: Expression system for standard: NSO; Immunogen sequence: A23-Q117. The kit is analytically validated with ready to use reagents. To measure Human PI3, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human PI3 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human PI3 in the sample. Background/Introduction: Elafin, also known as peptidase inhibitor 3 or skin-derived antileukoproteinase(SKALP) is a protein that in humans is encoded by the PI3 gene. It is mapped to 20q13.12. This gene encodes an elastase-specific inhibitor that functions as an antimicrobial peptide against Gram-positive and Gram-negative bacteria. The protein contains a WAP-type four-disulfide core(WFDC) domain, and is thus a member of the WFDC domain family. Most WFDC gene members are localized to chromosome 20q12-q13 in two clusters: centromeric and telomeric. This gene belongs to the centromeric cluster. Expression of this gene is upregulated by bacterial lipopolysaccharides and cytokines. This gene is the neutrophil and pancreatic elastase-specific inhibitor of skin. It may prevent elastase-mediated tissue proteolysis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	119262
NCBI GeneID	5266
UniProt Accession #	P19957; Q6FG74; E1P618
Molecular Weight	12,270 Da
NCBI Official Full Name	Elafin
NCBI Official Synonym Full Names	peptidase inhibitor 3, skin-derived
NCBI Official Symbol	PI3
NCBI Official Synonym Symbols	ESI; WAP3; SKALP; WFDC14; cementoin
NCBI Protein Information	elafin; PI-3; trappin-2; pre-elafin; protease inhibitor WAP3; elastase-specific inhibitor; skin-derived antileukoproteinase; WAP four-disulfide core domain 14; WAP four-disulfide core domain protein 14; protease inhibitor 3, skin-derived (SKALP)
UniProt Protein Name	Elafin
UniProt Gene Name	PI3
UniProt Synonym Gene Names	WAP3; WFDC14; ESI; PI-3; SKALP
UniProt Entry Name	ELAF_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.