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# **PI3 ELISA Kit**





#### Overview

Quantity:	1 kit
Target:	PI3
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

### **Product Details**

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen	
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Characteristics:	Synonyms: Cementoin, Elafin, 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	
	Background: 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 upgulated by bacterial lipopolysaccharides and cytokines. This gene is the neutrophil and pancreatic elastase-specific inhibitor of skin. It may prevent elastase-mediated tissue proteolysis.

Gene Name: PI3

Production: Natural and recombinant human Elafin. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: A23-Q117

#### **Target Details**

Target:	PI3
Alternative Name:	Elafin - PI3 (PI3 Products)
Gene ID:	5266
NCBI Accession:	NP_002629
UniProt:	P19957

#### **Application Details**

Αı	pp	lication	Notes:
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Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL human Elafin standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum and plasma(heparin, EDTA) to each empty well. It is recommended that each human Elafin standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 31.2pg/mL-2000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

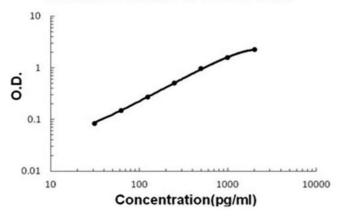
Restrictions: For Research Use only

### Handling

Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid
	cycles of freezing and thawing.

## **Images**

# Human Elafin/PI3 ELISA Kit



#### **ELISA**

**Image 1.** Human Elafin/Pl3 Accusignal ELISA Kit Human Elafin/Pl3 AccuSignal ELISA Kit standard curve. Assay Range: 31.2pg/ml-2000pg/ml. Sensitivity: <10pg/ml.