

Datasheet for KOA0637**Human Elafin - PI3 ELISA Kit****Overview**

Description:	Human Elafin/PI3 AccuSignal ELISA Kit - KOA0637
Item No.:	KOA0637
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	31.2 pg/ml - 2000 pg/ml

Product Details

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 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.
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
Detection Kit Type:	ELISA Kit
Detection Range:	31.2 pg/ml - 2000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	PI3
Reactivity:	Human

Immunogen:	Expression system for standard: NSO; Immunogen sequence: A23-Q117
Purity/Specificity:	Natural and recombinant human Elafin. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P19957 • NCBI - NP_002629.1 • GeneID - 5266 • KOA0637 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml 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 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	DOE @ 4°C 06/26/2025 @ -20°C 12/26/2025

Formulation

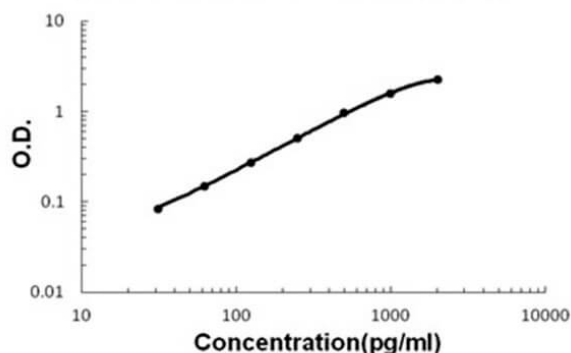
Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	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.
Expiration:	See kit insert for complete instructions.

Images

Human Elafin/PI3 ELISA Kit



ELISA

Human Elafin/PI3 AccuSignal ELISA Kit standard curve. Assay Range: 31.2pg/ml-2000pg/ml. Sensitivity: <10pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.