

Datasheet for KOA0228**Human IL-8 ELISA Kit****Overview**

Description:	Human IL-8 AccuSignal ELISA Kit - KOA0228
Item No.:	KOA0228
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	15.6 pg/ml - 1000 pg/ml (cell culture supernates), 7.8 pg/ml - 500 pg/ml (serum, plasma)

Product Details

Background:	Interleukin-8, also called neutrophil-activating peptide-1 or SCYB8, is a tissue-derived peptide secreted by several types of cells in response to inflammatory stimuli. Monocyte-derived neutrophil chemotactic factor(MDNCF/IL-8, suggested gene symbol IL8) is a cytokine that chemoattracts and activates neutrophils. IL-8 is produced and released from human adipose tissue and from isolated adipocytes in vitro, which may indicate that IL-8 from adipose tissue could be involved in some of the obesity-related complications. The MDNCF/IL-8 gene is placed on the human gene map at position 4q12-q21. This is the same location where at least three other members(platelet factor 4, melanoma growth stimulatory activity, and interferon-gamma induced factor) of the platelet factor 4 gene superfamily reside. Human IL-8 consists of 99 amino acids in precursor form and 79 amino acids in mature form.
Synonyms:	AMCF I, B-ENAP, Beta-thromboglobulin-like protein, C X C motif chemokine 8, Chemokine (C X C motif) ligand 8, GCP 1, GCP/IL-8 protein I, Granulocyte chemotactic protein 1, IL 8, IL8/NAP1 form II, IL8_HUMAN, Interleukin 8, Lymphocyte derived neutrophil activating factor, Monocyte derived neutrophil activating peptide, Monocyte derived neutrophil chemotactic factor, NAF, Neutrophil-activating factor, Protein 3 10C, Small inducible cytokine subfamily B member 8, T cell chemotactic factor, TSG 1
Detection Kit Type:	ELISA Kit
Detection Range:	15.6 pg/ml - 1000 pg/ml (cell culture supernates), 7.8 pg/ml - 500 pg/ml (serum, plasma)
Sensitivity:	<1 pg/ml

Target Details

Gene Name: CXCL8

Reactivity:	Human
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: S28-S99
Purity/Specificity:	Natural and recombinant human IL-8. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P10145 • NCBI - NP_000575.1 • GeneID - 3576 • KOA0228 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml, 15.6pg/ml human IL-8 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 or plasma(heparin, EDTA, citrate) to each empty well. It is recommended that each human IL-8 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.
ELISA:	15.6pg/ml-1000pg/ml(cellculturesupernates)7.8pg/ml-500pg/ml(serum,plasma)
Other:	DOE: 02/09/2023 at 4°C 08/10/2023 at -20°C

Formulation

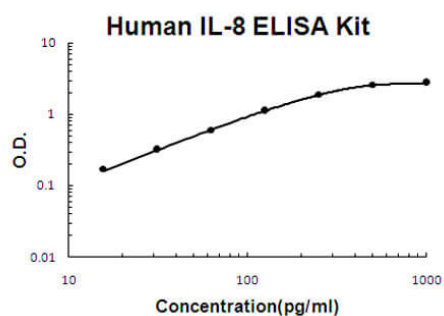
Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

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



ELISA

Human IL-8 AccuSignal ELISA Kit standard curve. Assay Range: 15.6pg/ml-1000pg/ml(cell culture supernates)7.8pg/ml-500pg/ml(serum, plasma). Sensitivity: <1pg/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.