

ARG83357 Human IL8 ELISA Kit

Package: 96 wells
Store at: 4°C, ≤ -20°C

Component

Cat. No.	Component Name	Package	Temp
ARG83357-01	Antibody Coated Microplate	8 X 12 strips	4°C
ARG83357-02	Standards Mixture	3 vials	4°C
ARG83357-03	100X Antibody Conjugate Mixture	120 µl	≤ -20°C
ARG83357-04	1000X HRP-Streptavidin solution	15 µl	4°C
ARG83357-05	Diluent Buffer	50 ml	4°C
ARG83357-06	10X Wash Buffer	50 ml	4°C
ARG83357-07	TMB substrate	12 ml	4°C (protect from light)
ARG83357-08	STOP solution	12 ml	4°C
ARG83357-09	Plate sealer	4 adhesive strips	Room temperature

Summary

Product Description	ARG83357 Human IL8 ELISA Kit is an Enzyme Immunoassay kit for the quantification of IL8 in Human Serum, Plasma, Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	No significant cross-reactivity or interference with Human GRO alpha, GRO beta, GRO gamma, I-309, IP-10, MCP-1, MCP-2, MCP-3, MIP-1 alpha, MIP-1 beta, RANTES; mouse KC
Target Name	IL8
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	11.7 pg/ml
Sample Type	Serum, Plasma, Cell culture supernatants
Standard Range	23.4 - 1500 pg/ml
Sample Volume	50 µl
Precision	CV:
Alternate Names	IL8/NAP1 form IV; GCP/IL-8 protein IV; NAF; T-cell chemotactic factor; 1-77; Ala-IL-8; Interleukin-8; IL-8; Neutrophil-activating protein 1; GCP/IL-8 protein II; IL8/NAP1 form II; GCP/IL-8 protein V; MDNCF; Protein 3-10C; Lymphocyte-derived neutrophil-activating factor; Neutrophil-activating factor; Granulocyte chemotactic protein 1; LYNAP; NAP-1; Monocyte-derived neutrophil chemotactic factor; 6-77; 7-77; C-X-C motif chemokine 8; GCP1; NAP1; Ser-IL-8; 5-77; GCP/IL-8 protein VI; IL8/NAP1 form I;

IL8/NAP1 form VI; Monocyte-derived neutrophil-activating peptide; C-X-C motif; 8-77; 9-77; LUCT; Chemokine; GCP-1; MDNCF-b; MDNCF-c; IL8/NAP1 form V; LECT; IL8/NAP1 form III; GCP/IL-8 protein III; Emoctakin; GCP/IL-8 protein I; MONAP; IL8

Application Instructions

Assay Time 4 hours

Properties

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol CXCL8

Gene Full Name chemokine (C-X-C motif) ligand 8

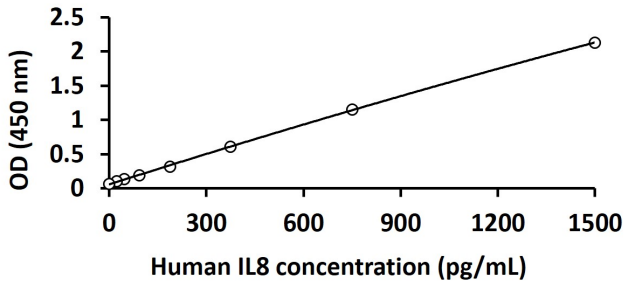
Background The protein encoded by this gene is a member of the CXC chemokine family. This chemokine is one of the major mediators of the inflammatory response. This chemokine is secreted by several cell types. It functions as a chemoattractant, and is also a potent angiogenic factor. This gene is believed to play a role in the pathogenesis of bronchiolitis, a common respiratory tract disease caused by viral infection. This gene and other ten members of the CXC chemokine gene family form a chemokine gene cluster in a region mapped to chromosome 4q. [provided by RefSeq, Jul 2008]

Function IL-8 is a chemotactic factor that attracts neutrophils, basophils, and T-cells, but not monocytes. It is also involved in neutrophil activation. It is released from several cell types in response to an inflammatory stimulus. IL-8(6-77) has a 5-10-fold higher activity on neutrophil activation, IL-8(5-77) has increased activity on neutrophil activation and IL-8(7-77) has a higher affinity to receptors CXCR1 and CXCR2 as compared to IL-8(1-77), respectively. [UniProt]

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PTM Several N-terminal processed forms are produced by proteolytic cleavage after secretion from at least peripheral blood monocytes, leukocytes and endothelial cells. In general, IL-8(1-77) is referred to as interleukin-8. IL-8(6-77) is the most prominent form. Citrullination at Arg-27 prevents proteolysis, and dampens tissue inflammation, it also enhances leukocytosis, possibly through impaired chemokine clearance from the blood circulation.



ARG83357 Human IL8 ELISA Kit standard curve image

ARG83357 Human IL8 ELISA Kit results of a typical standard run with optical density reading at 450 nm.
