

## ARG80111 Human IL8 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

| Cat. No.     | Component Name                  | Package       | Temp  |
|--------------|---------------------------------|---------------|---|
| ARG80111-001 | Antibody-coated microplate      | 8 X 12 strips | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG80111-002 | Standard (Lyophilized)          | 3 X 1 ng/vial | 4°C   |
| ARG80111-003 | Standard diluent buffer         | 20 ml         | 4°C   |
| ARG80111-004 | Antibody conjugate concentrate  | 400 µl        | 4°C   |
| ARG80111-005 | Antibody diluent buffer         | 16 ml         | 4°C   |
| ARG80111-006 | HRP-Streptavidin concentrate    | 400 µl        | 4°C (Protect from light)  |
| ARG80111-007 | HRP-Streptavidin diluent buffer | 16 ml         | 4°C   |
| ARG80111-008 | 20X Wash buffer                 | 50 ml         | 4°C   |
| ARG80111-009 | TMB substrate                   | 12ml          | 4°C (Protect from light)  |
| ARG80111-010 | STOP solution                   | 12ml          | 4°C   |
| ARG80111-011 | Plate sealer                    | 4 strips      | Room temperature  |

### Summary

|                     |   |
|---------------------|---|
| Product Description | ARG80111 Human IL8 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human IL8 in 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 <sup>®</sup> mouse KC |
| Target Name         | IL8   |
| Conjugation         | HRP   |
| Conjugation Note    | Substrate: TMB and read at 450 nm   |
| Sensitivity         | 4 pg/ml   |
| Sample Type         | Serum, Plasma, Cell culture supernatants  |
| Standard Range      | 7.8 - 500 pg/ml   |

|                 |  |
|-----------------|--|
| Sample Volume   | 100 µl   |
| Precision       | CV: less than 10%  |
| 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; Emotakin; GCP/IL-8 protein I; MONAP; IL8 |

## Application Instructions

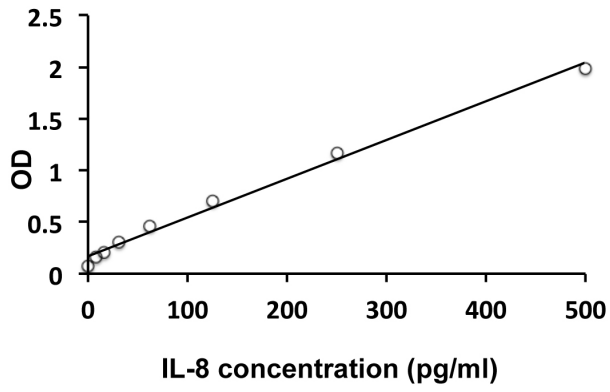
|            |         |
|------------|---------|
| Assay Time | 4 hours |
|------------|---------|

## 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]   |
| Highlight      | <p>Related products:</p> <p><a href="#">IL8 antibodies</a>; <a href="#">IL8 ELISA Kits</a>; <a href="#">IL8 Duos / Panels</a>; <a href="#">IL8 recombinant proteins</a>;</p> <p>Related news:</p> <p><a href="#">HMGB1 in inflammation</a></p> <p><a href="#">Inflammatory Cytokines</a></p> <p><a href="#">New MMP7 (total or active) ELISA kits are released</a></p> <p>New ELISA data calculation tool:</p> <p><a href="#">Simplify the ELISA analysis by GainData</a></p>   |
| Research Area  | Cancer kit; Cell Biology and Cellular Response kit; Immune System kit   |
| 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.   |



ARG80111 Human IL8 ELISA Kit standard curve image

ARG80111 Human IL8 ELISA Kit results of a typical standard run with optical density reading at 450 nm.