

ARG83577

arigoQIK™ Human IL8 ELISA Development Kit

Package: 1 kit(5 plates), 1 kit
(15 plates)
Store at: 4°C, -20°C

Summary

Product Description

ARG83577 arigoQIK™ Human IL8 ELISA Development Kit, includes Capture antibody, Detection antibody, Standard, and HRP-Streptavidin Solution.

This ELISA Development Kit is designed for the development of sandwich ELISA to measure Human IL8 in Serum, plasma and cell culture supernatants.

For other reagents required for [arigoQIK™ ELISA Development Kit](#), please refer [ARG83524 Integral Reagent Kit \(ELISA Development Kit\)](#)

[More about arigoQIK™:](#)

- Optimized capture and detection antibody pairs
- Reduced incubation time and wash cycles
- 2-hour quicker than conventional ELISA process
- 5- and 15-plate packages available

Tested Reactivity

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Tested Application

ELISA

Target Name

IL8

Conjugation

HRP

Conjugation Note

Substrate: TMB and read at 450 nm.

Sensitivity

11.7 pg/ml

Sample Type

Serum, plasma and cell culture supernatants.

Standard Range

23.4 - 1500 pg/ml

Sample Volume

50 µl

Alternate Names

CXCL8; C-X-C Motif Chemokine Ligand 8; MDNCF; NAP-1; MONAP; GCP-1; Monocyte-Derived Neutrophil Chemotactic Factor; Monocyte-Derived Neutrophil-Activating Peptide; Granulocyte Chemotactic Protein 1; Chemokine (C-X-C Motif) Ligand 8; SCYB8; LYNAP; LUCT; LECT; IL-8; GCP1; NAP1; NAF; IL8; Beta Endothelial Cell-Derived Neutrophil Activating Peptide; Lung Giant Cell Carcinoma-Derived Chemotactic Protein; Lymphocyte Derived Neutrophil Activating Peptide; Alveolar Macrophage Chemotactic Factor I; Tumor Necrosis Factor-Induced Gene 1; Neutrophil-Activating Peptide 1; T-Cell Chemotactic Factor; Interleukin 8; Interleukin-8; Emotakin; AMCF-I; B-ENAP; TSG-1; 3-10C; K60; Small Inducible Cytokine Subfamily B, Member 8; Beta-Thromboglobulin-Like Protein; Neutrophil-Activating Protein 1; C-X-C Motif Chemokine 8; Protein 3-10C

Properties

Form

96 well

Storage instruction

Store components at 4°C or -20°C. 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.

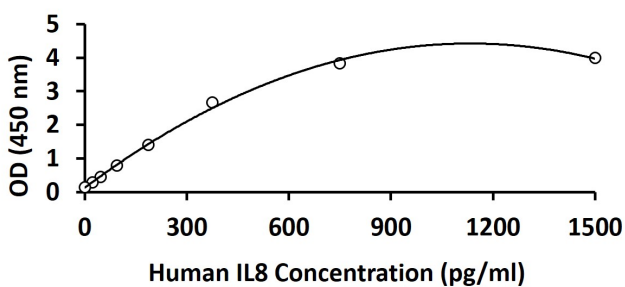
Note

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

Bioinformation

Gene Symbol	CXCL8
Gene Full Name	C-X-C Motif Chemokine Ligand 8
Background	<p>The protein encoded by this gene is a member of the CXC chemokine family and is a major mediator of the inflammatory response. The encoded protein is commonly referred to as interleukin-8 (IL-8). IL-8 is secreted by mononuclear macrophages, neutrophils, eosinophils, T lymphocytes, epithelial cells, and fibroblasts. It functions as a chemotactic factor by guiding the neutrophils to the site of infection. Bacterial and viral products rapidly induce IL-8 expression. IL-8 also participates with other cytokines in the proinflammatory signaling cascade and plays a role in systemic inflammatory response syndrome (SIRS). This gene is believed to play a role in the pathogenesis of the lower respiratory tract infection bronchiolitis, a common respiratory tract disease caused by the respiratory syncytial virus (RSV). The overproduction of this proinflammatory protein is thought to cause the lung inflammation associated with cystic fibrosis. This proinflammatory protein is also suspected of playing a role in coronary artery disease and endothelial dysfunction. This protein is also secreted by tumor cells and promotes tumor migration, invasion, angiogenesis and metastasis. This chemokine is also a potent angiogenic factor. The binding of IL-8 to one of its receptors (IL-8RB/CXCR2) increases the permeability of blood vessels and increasing levels of IL-8 are positively correlated with increased severity of multiple disease outcomes (eg, sepsis). This gene and other members of the CXC chemokine gene family form a gene cluster in a region of chromosome 4q. [provided by RefSeq, May 2020]</p>
Function	G-protein heterotrimer (alpha, beta, gamma subunits) constitutively binds to CXCR1/CXCR2 receptor and activation by IL8 leads to beta and gamma subunits release from Galpha (GNAI2 in neutrophils) and activation of several downstream signaling pathways including PI3K and MAPK pathways. [UniProt]
PTM	Citrullination, Disulfide bond. [UniProt]
Cellular Localization	Secreted. [UniProt]

Images



ARG83575 arigoQIK Human IL4 ELISA Development Kit standard curve image

ARG83575 arigoQIK Human IL4 ELISA Development Kit results of a typical standard run with optical density reading at 450 nm.