

Human Interleukin 8 ELISA Kit | IL-8 elisa kit

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CATALOG #
AAA17520

REACTIVITY
Human

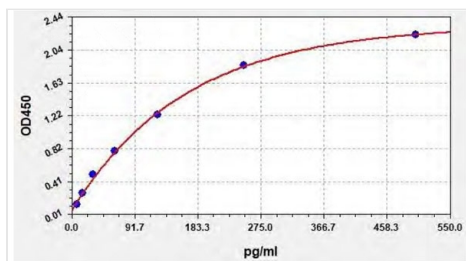
PRODUCT SYNONYMS

Interleukin 8; Human Interleukin 8 ELISA Kit; IL-8/IL8/CXCL8/GCP-1/GCP1/LECT/LUCT/LYNAP/MDNCF/MONAP/NAF/NAP-1/NAP1/3-10C/AMCF-I/K60; IL-8 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize IL-8, no obvious cross reaction with other analogues
Sequence Length	99
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	7.813-500pg/ml
Sensitivity	4.688pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-8 elisa kit	Background: Interleukin-8 (IL-8) is a cytokine belonging to the chemokine family, mainly produced by macrophages, endothelial cells, and epithelial cells after stimulation by inflammation, pathogen infection, and other factors. IL-8 can induce white blood cells to migrate to the site of inflammation through its receptors CXCR1 and CXCR2, and participate in physiological and pathological processes such as inflammatory response, immune response, and tumor occurrence. In addition, IL-8 also has functions such as promoting angiogenesis, cell proliferation, and metastasis, and is therefore considered a cytokine associated with tumors. IL-8 plays an important role in the development of various diseases such as cancer, cardiovascular disease, and autoimmune diseases. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti IL-8 antibody was pre-coated onto the 96-well plate. The biotin conjugated anti IL-8 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with IL-8 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of IL-8 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	10834978
NCBI GeneID	3576
NCBI Accession #	NP_000575.1
NCBI GenBank Nucleotide #	NM_000584.3
Molecular Weight	11,098 Da
NCBI Official Full Name	interleukin-8
NCBI Official Synonym Full Names	chemokine (C-X-C motif) ligand 8
NCBI Official Symbol	CXCL8
NCBI Official Synonym Symbols	IL8; NAF; GCP1; LECT; LUCT; NAP1; GCP-1; LY NAP; MDNCF; MONAP; NAP-1
NCBI Protein Information	interleukin-8
UniProt Protein Name	Interleukin-8
UniProt Gene Name	CXCL8
UniProt Synonym Gene Names	IL8; IL-8; GCP-1; MDNCF; MONAP; NAP-1; LY NAP; NAF
UniProt Entry Name	IL8_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.