

Interleukin-8 ELISA Kit | IL-8 elisa kit

Interleukin-8 (IL-8)

CATALOG #
AAA77852

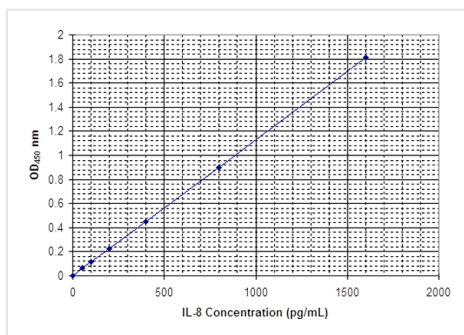
PRODUCT SYNONYMS

Interleukin-8; Interleukin-8 (IL-8); IL-8 elisa kit

PRODUCT SPECIFICATIONS

Specificity	This sandwich ELISA recognizes both natural and recombinant human IL-8. This kit exhibits no detectable cross-reactivity with human IL-1?, EGF, MCAF, RANTES, and SAA.
Sequence Length	99
Samples	Cell Culture Supernatant, serum, plasma, and other biological fluids
Assay Type	Sandwich
Sensitivity	The minimum detectable dose of IL-8 was determined by adding two standard deviations to the mean optical density value of the 20 zero-standard replicates and calculating the corresponding concentration from the standard curve. The minimum detectable dose using a standard curve generated with Calibrator Diluent I is 10 pg/mL and using Calibrator Diluent II is 4 pg/mL.
Intra-assay Precision	To determine within-run precision, three different samples of known concentration were assayed by using 20 replicates in 1 assay.
Inter-assay Precision	To determine between-run precision, three different samples of known concentration were assayed by using replicates on 20 different assays.
Intended Uses	This Human IL-8 ELISA kit is to be used for the in vitro quantitative determination of human interleukin-8 (IL-8) concentrations in cell culture supernatant, serum, plasma, and other biological fluids. This kit is intended for LABORATORY RESEARCH USE ONLY and is not for use in therapeutic procedures.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-8 elisa kit	Principle of the assay: This IL-8 enzyme-linked immunosorbent assay (ELISA) applies a technique called a quantitative sandwich immunoassay. The microtiter plate provided in this kit has been pre-coated with a monoclonal antibody specific for IL-8. Standards or samples are then added to the appropriate microtiter plate wells and incubated. IL-8, if present, will bind and become immobilized by the antibody pre-coated on the wells. The microtiter plate wells are thoroughly washed to remove unbound IL-8 and other components of the sample. In order to quantify the amount of IL-8 present in the sample, a standardized preparation of horseradish peroxidase (HRP)-conjugated monoclonal antibody specific for IL-8 is added to each well to "sandwich" the IL-8 immobilized during the first incubation. The microtiter plate then undergoes a second incubation. The wells are thoroughly washed to remove all unbound HRP-conjugated antibodies and a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain IL-8 and enzyme-conjugated antibody will exhibit a change in colour. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the colour change is measured spectrophotometrically at a wavelength of 450nm +/- 2nm. In order to measure the concentration of IL-8 in the samples, this kit contains two calibration diluents (Calibrator Diluent I for serum/plasma testing and Calibrator Diluent II for cell culture supernatant/ urine testing). According to the testing system, the provided standard is diluted (2-fold) with the appropriate Calibrator Diluent and assayed at the same time as the samples. This allows the operator to produce a standard curve of Optical Density (O.D.) versus IL-8 concentration (pg/mL). The concentration of IL-8 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for IL-8 elisa kit	ELISA Kits for Human Cytokines and Receptors

NCBI AND UNIPROT INFORMATION

NCBI GI #	10834978
NCBI GeneID	3576
NCBI Accession #	NP_000575.1
NCBI GenBank Nucleotide #	NM_000584.3
Molecular Weight	11,338 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; LYNAP; MDNCF; MONAP; NAP-1
NCBI Protein Information	interleukin-8; T-cell chemotactic factor; alveolar macrophage chemotactic factor I; beta endothelial cell-derived neutrophil activating peptide; beta-thromboglobulin-like protein; emoctakin; granulocyte chemotactic protein 1; interleukin 8; lung giant cell carcinoma-derived chemotactic protein; lymphocyte derived neutrophil activating peptide; monocyte-derived neutrophil chemotactic factor; monocyte-derived neutrophil-activating peptide; neutrophil-activating peptide 1; small inducible cytokine subfamily B, member 8; tumor necrosis factor-induced gene 1
UniProt Protein Name	Interleukin-8
UniProt Gene Name	CXCL8
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.

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