

Monocyte Chemotactic Protein-3 ELISA Kit | MCP-3 elisa kit

Monocyte Chemotactic Protein-3 (MCP-3)

CATALOG #
AAA77859

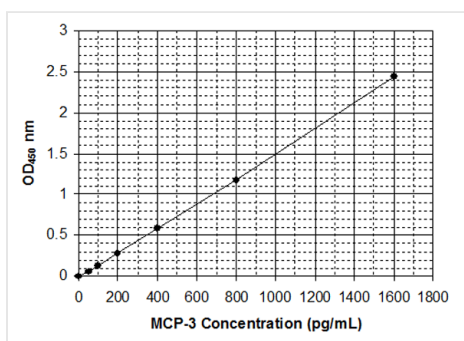
PRODUCT SYNONYMS

Monocyte Chemotactic Protein-3; Monocyte Chemotactic Protein-3 (MCP-3); MCP-3 elisa kit

PRODUCT SPECIFICATIONS

Specificity	This sandwich ELISA can recognise both natural and recombinant human MCP-3. This kit exhibits no significant cross-reactivity with human IL-8, IL-1beta, SAA, RANTES, MCAF, EGF, TNF-alpha, TGF-beta, M-CSF, GM-CSF, FGF, and EPO.
Sequence Length	109
Samples	Serum, plasma, Cell Culture Supernatant, and other biological fluids
Assay Type	Sandwich
Sensitivity	The minimum detectable dose of MCP-3 was determined by adding two standard deviations to the mean optical density value of 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 30 pg/mL and using Calibrator Diluent II is 20 pg/mL.
Intra-assay Precision	To determine within-run precision, three different samples of known concentration were assayed by replicates of twenty in 1 assay.
Inter-assay Precision	To determine between-run precision, three different samples of known concentration were assayed by replicates on 20 different assays.
Intended Uses	This Human MCP-3 ELISA Kit is to be used for the in vitro quantitative determination of human monocyte chemotactic protein-3 (MCP-3) concentrations in serum, plasma, cell culture supernatant, 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 MCP-3 elisa kit	Principle of the assay: This MCP-3 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 MCP-3. Standards or samples are then added to the appropriate microtiter plate wells and incubated. MCP-3, if present, will bind and become immobilised by the antibody pre-coated on the wells. The microtiter plate wells are thoroughly washed to remove unbound MCP-3 and other components of sample. In order to quantitate the amount of MCP-3 present in the sample, a standardised preparation of horseradish peroxidase (HRP)-conjugated monoclonal antibody specific for MCP-3 is added to each well to "sandwich" the MCP-3 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 MCP-3 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 450 nm +/- 2 nm. In order to measure the concentration of MCP-3 in the samples, this kit includes two calibration diluents (Calibrator Diluent I for serum/plasma testing and Calibrator Diluent II for cell culture supernatant testing.) According to the testing system, the provided standard is diluted (2-fold) with 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 MCP-3 concentration (pg/mL). The concentration of MCP-3 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for MCP-3 elisa kit	ELISA Kits for Human Cytokines and Receptors

NCBI AND UNIPROT INFORMATION

NCBI GI #	313708
UniProt Accession #	P80098 ; Q569J6
Molecular Weight	11,200 Da
NCBI Official Full Name	monocyte chemotactic protein-3
UniProt Protein Name	C-C motif chemokine 7
UniProt Gene Name	CCL7
UniProt Entry Name	CCL7_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mcp-3-elisa-kits/monocyte-chemotactic-protein-3/77859>