

Monocyte Chemotactic Activating Factor ELISA Kit | MCP-1/MCAF elisa kit

Monocyte Chemotactic Activating Factor (MCP-1/MCAF)

CATALOG #
AAA77858

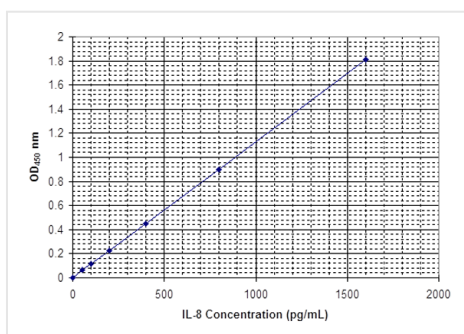
PRODUCT SYNONYMS

Monocyte Chemotactic Activating Factor; Monocyte Chemotactic Activating Factor (MCP-1/MCAF); MCP-1/MCAF elisa kit

PRODUCT SPECIFICATIONS

Specificity	This sandwich ELISA recognises both natural and recombinant human MCAF. This kit exhibits no detectable cross-reactivity with human; EPO, FGF, GM-CSF, IL-8, IL-1beta, MCP-3, M-CSF, RANTES, SAA, TGF-alpha, TGF-beta, and TNF-alpha.
Sequence Length	1270
Samples	Serum, plasma, Cell Culture Supernatant, and other biological fluids
Assay Type	Sandwich
Sensitivity	The minimum detectable dose of MCAF was determined by adding two standard deviations to the mean optical density value of the 10 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 1.5 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 18 different assays.
Intended Uses	This Human MCAF ELISA kit is to be used for the in vitro quantitative determination of human monocyte chemotactic and activating factor (MCAF) concentrations in serum, plasma, cell culture supernatant, and other biological fluids. This kit is intended for LABORATORY RESEARCH USE ONLY and is not to be used in therapeutic procedures.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MCP-1/MCAF elisa kit	Principle of the assay: This MCAF 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 MCAF. Standards or samples are then added to the appropriate microtiter plate wells and incubated. MCAF, 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 MCAF and other components of the sample. In order to quantify the amount of MCAF present in the sample, a standardized preparation of horseradish peroxidase (HRP)-conjugated monoclonal antibody specific for MCAF is added to each well to "sandwich" the MCAF 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 MCAF 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 MCAF 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 MCAF concentration (pg/mL). The concentration of MCAF in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for MCP-1/MCAF elisa kit	ELISA Kits for Human Cytokines and Receptors

NCBI AND UNIPROT INFORMATION

NCBI GI #	29611342
NCBI GeneID	55729
Molecular Weight	136,323 Da
NCBI Official Full Name	MBD1-containing chromatin associated factor
NCBI Official Synonym Full Names	activating transcription factor 7 interacting protein
NCBI Official Symbol	ATF7IP
NCBI Official Synonym Symbols	AM; MCAF; p621; MCAF1; ATF-IP
NCBI Protein Information	activating transcription factor 7-interacting protein 1; ATF-interacting protein; ATF7-interacting protein; ATFα-associated modulator; MBD1-containing chromatin-associated factor 1
UniProt Protein Name	Activating transcription factor 7-interacting protein 1
UniProt Gene Name	ATF7IP
UniProt Entry Name	MCAF1_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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Online datasheet: <https://stage.aaabiotech.com/mcp-1-mcaf-elisa-kits/monocyte-chemotactic-activating-factor/77858>