

Granulocyte Macrophage- Colony Stimulating Factor ELISA Kit | GM-CSF elisa kit

Granulocyte Macrophage- Colony Stimulating Factor (GM-CSF)

CATALOG #
AAA77843

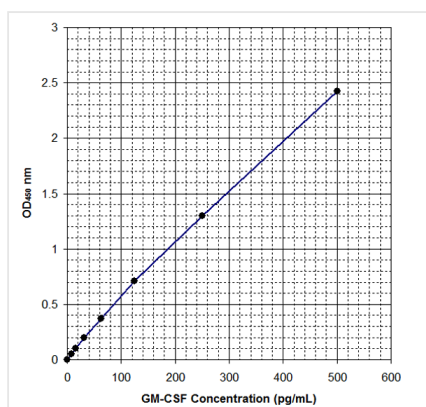
PRODUCT SYNONYMS

Granulocyte Macrophage- Colony Stimulating Factor; Granulocyte Macrophage- Colony Stimulating Factor (GM-CSF); GM-CSF elisa kit

PRODUCT SPECIFICATIONS

Specificity	This sandwich ELISA recognizes both natural and recombinant human GM-CSF. This kit exhibits no significant cross-reactivity with human; TGF, MCP-1, MCP-3, MCSF, EGF, IL-1beta, IL-8, IL-16, and TNF-alpha.
Sequence Length	144
Samples	Serum, plasma, Cell Culture Supernatant, and other biological fluids
Assay Type	Sandwich
Sensitivity	The minimum detectable dose of GM-CSF using a standard curve generated with Calibrator Diluent I is 1.5-2.0 pg/mL and using Calibrator Diluent II is 2.0 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 know concentration were assayed by replicates on 20 different assays.
Intended Uses	This Human GM-CSF ELISA Kit is to be used for the in vitro quantitative determination of human granulocyte macrophage colony stimulating factor (GM-CSF) concentrations in serum, plasma, cell culture supernatant, and other biological fluids. This kit is intended for LABORATORY RESEARCH ONLY and is not for use in therapeutic procedures.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GM-CSF elisa kit	Principle of the assay: This GM-CSF 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 GM-CSF. Standards or samples are then added to the appropriate microtiter plate wells and incubated. GM-CSF, 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 GM-CSF and other components of the sample. In order to quantitatively determine the amount of GM-CSF present in the sample, a standardized preparation of horseradish peroxidase HRP-conjugated monoclonal antibody specific for GM-CSF is added to each well to "sandwich" the GM-CSF 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 GM-CSF 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 +/- 2 nm. In order to measure the concentration of GM-CSF in the samples, this kit includes two 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 dilution series) 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 GM-CSF concentration (pg/mL). The concentration of GM-CSF in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for GM-CSF elisa kit	ELISA Kits for Human Cytokines and Receptors

NCBI AND UNIPROT INFORMATION

NCBI GI #	27437030
NCBI GeneID	1437
NCBI Accession #	NP_000749.2
NCBI GenBank Nucleotide #	NM_000758.3
Molecular Weight	16,295 Da
NCBI Official Full Name	granulocyte-macrophage colony-stimulating factor
NCBI Official Synonym Full Names	colony stimulating factor 2 (granulocyte-macrophage)
NCBI Official Symbol	CSF2
NCBI Official Synonym Symbols	GMCSF
NCBI Protein Information	granulocyte-macrophage colony-stimulating factor; CSF; granulocyte macrophage-colony stimulating factor; molgramostin; sargramostim
UniProt Protein Name	Granulocyte-macrophage colony-stimulating factor
UniProt Gene Name	CSF2
UniProt Entry Name	CSF2_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/gm-csf-elisa-kits/granulocyte-macrophage-colony-stimulating-factor/77843>