

Human GM-CSF ELISA Kit | GM-CSF elisa kit

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CATALOG #
AAA309869

REACTIVITY
Human

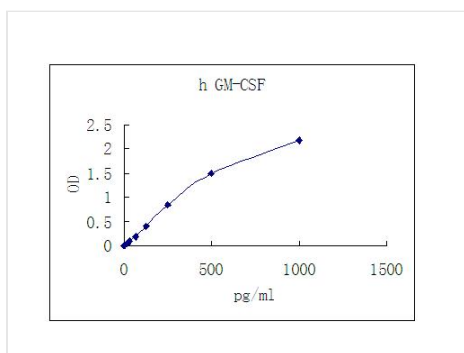
PRODUCT SYNONYMS

GM-CSF; Human GM-CSF ELISA KIT; GM-CSF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human GM-CSF Ligand
Assay Type	Solid Phase Sandwich ELISA
Samples	Cell culture supernatant, serum, plasma (EDTA, citrate, heparin)
Detection Range	31.25-2000pg/mL
Sensitivity	7pg/mL
Assay Time	3 hours
Sample Volume	20 uL
Detection Method	Colorimetric
Preparation and Storage	Store at 4 degree C

IMAGES



Standard Curve (Sample)

Representative standard curve for GM-CSF ELISA. GM-CSF was diluted in serial two-fold steps in Sample Diluent.

ADDITIONAL INFORMATION

Related Product Information for GM-CSF elisa kit	Granulocyte macrophage colony stimulating factor (GM-CSF) is a pleiotropic cytokine with multiple effects on hematopoietic cells (1-4). It mobilizes CD34+ progenitor cells into the periphery and stimulates their proliferation, survival and differentiation into neutrophils, monocytes/ macrophages, eosinophils, and myeloid dendritic cells (4-8). On these terminally differentiated myeloid cells, GM-CSF is also needed for inducing their effector functions (7-10). In addition, GM-CSF has been shown to stimulate the proliferation and differentiation of the erythroid and megakaryocyte progenitor cells (4). GM-CSF is produced by a number of different cell types, including keratinocytes, mature and immature NK cells, type II alveolar cells, endothelial cells, monocytes, bone-marrow mesenchymal stem cells, CD4+ and CD8+ T cells, megakaryocytes, B cells, eosinophils, chondrocytes and fibroblasts. Human GM-CSF cDNA encodes a 144 amino acid (aa) residue precursor protein with a 17 aa putative signal peptide and a 127 aa mature protein (11 - 13). Natural GM-CSF is a monomer that contains both N- and O-linked glycosylation (14). Mature human GM-CSF shares approximately 55%, 63% and 68% aa sequence homology with mouse, rat and canine. GM-CSF, respectively. Human GM-CSF is not biologically active on mouse cells (11), but was reported to have some activity on canine cells (15). GM-CSF exerts its activity through binding to a high affinity receptor complex consisting of two membrane glycoproteins. The presence of the spliced variants in the heteromeric receptor complex can regulate the functions of the complex (16).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	183364
NCBI GeneID	1437
Molecular Weight	16,295 Da
NCBI Official Full Name	GM-CSF
NCBI Official Synonym Full Names	colony stimulating factor 2
NCBI Official Symbol	CSF2
NCBI Official Synonym Symbols	GMCSF
NCBI Protein Information	granulocyte-macrophage colony-stimulating factor
UniProt Protein Name	Granulocyte-macrophage colony-stimulating factor
UniProt Gene Name	CSF2
UniProt Synonym Gene Names	GMCSF; GM-CSF; CSF

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://www.aaabiotech.com/human-elisa-kits/gm-csf/309869>