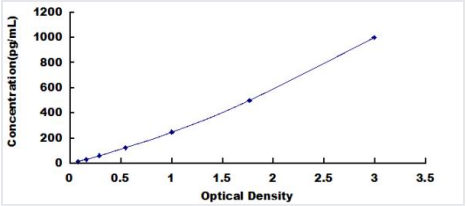
Colony Stimulating Factor 2, Granulocyte Macrophage (GMCSF) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Colony Stimulating Factor 2, Granulocyte Macrophage (GMCSF), ELISA Kit
Full Product Name	Human Colony Stimulating Factor 2, Granulocyte Macrophage (GMCSF) ELISA Kit
Product Gene Name	GMCSF elisa kit
Product Synonym Names	CSF2; GM-CSF; Sargramostim; Molgramostin; Granulocyte-Macrophage Colony Stimulating Factor
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, Plasma, Tissue Homogenates, Cell Lysates, Cell Culture Supernates or Other Biological Fluids.
Detection Range	15.6-1000pg/mL
Sensitivity	6.4pg/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	16,295 Da
OMIM	138960
3D Structure	ModBase 3D Structure for P04141
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for GMCSF elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to GMCSF. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to GMCSF. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain GMCSF, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of GMCSF in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of GMCSF elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GMCSF purchase	MBS459634 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Colony Stimulating Factor 2, Granulocyte Macrophage (GMCSF) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing GMCSF. The ELISA analytical biochemical technique of the MBS459634 kit is based on GMCSF antibody-GMCSF antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GMCSF antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GMCSF. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of GMCSF elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GMCSF. It may not necessarily be applicable to this product.

NCBI GI #	27437030
NCBI GeneID	1437
NCBI Accession #	NP_000749.2
UniProt Primary Accession #	P04141
UniProt Secondary Accession #	Q14CE8; Q2VPI8; Q8NFI6
UniProt Related Accession #	P04141
GenBank Nucleotide #	NM_000758.3
NCBI Official Full Name	granulocyte-macrophage colony-stimulating factor
NCBI Official Synonym Full Names	colony stimulating factor 2
NCBI Official Symbol	CSF2
NCBI Official Synonym Symbols	CSF; GMCSF
UniProt Protein Name	Granulocyte-macrophage colony-stimulating factor
UniProt Synonym Protein Names	Colony-stimulating factor; CSF; Molgramostin; Sargramostim
UniProt Gene Name	CSF2
UniProt Synonym Gene Names	GMCSF; GM-CSF; CSF
NCBI Protein Information	granulocyte-macrophage colony-stimulating factor
NCBI Summary for GMCSF	The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of granulocytes and macrophages. The active form of the protein is found extracellularly as a homodimer. This gene has been localized to a cluster of related genes at chromosome region 5q31, which is known to be associated with interstitial deletions in the 5q- syndrome and acute myelogenous leukemia. Other genes in the cluster include those encoding interleukins 4, 5, and 13. [provided by RefSeq, Jul 2008]
UniProt Comments for GMCSF	Cytokine that stimulates the growth and differentiation of hematopoietic precursor cells from various lineages, including granulocytes, macrophages, eosinophils and erythrocytes.
Research Articles on GMCSF	**1.** this study shows that cortisol inhibits CSF2 via DNA methylation and inhibits invasion in first-trimester trophoblast cells
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