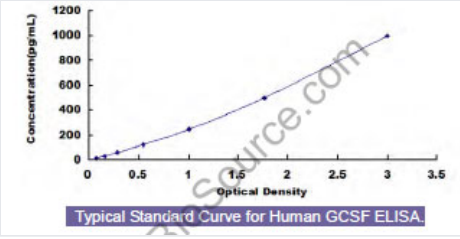
Colony Stimulating Factor 3, Granulocyte (GCSF) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Colony Stimulating Factor 3, Granulocyte (GCSF), ELISA Kit
Full Product Name	Human Colony Stimulating Factor 3, Granulocyte (GCSF) ELISA Kit
Product Gene Name	GCSF elisa kit
Product Synonym Names	CSF3; G-CSF; Granulocyte Colony Stimulating Factor; Pluripoietin; Filgrastim; Lenograstim
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Detection Range	15.625-1000pg/mL
Sensitivity	5.4pg/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of GCSF. No significant cross-reactivity or interference between GCSF and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level GCSF were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level GCSF were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	18,434 Da
OMIM	X03438 mRNA
3D Structure	ModBase 3D Structure for P09919
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for GCSF elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of GCSF in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to GCSF. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to GCSF. 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 GCSF, 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 GCSF in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of GCSF 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 GCSF purchase	MBS451622 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 3, Granulocyte (GCSF) 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 GCSF. The ELISA analytical biochemical technique of the MBS451622 kit is based on GCSF antibody-GCSF antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GCSF antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GCSF. 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 Standard Curve/Testing Data of GCSF elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	4503079
NCBI GeneID	1440
NCBI Accession #	NP_000750.1
UniProt Primary Accession #	P09919
UniProt Secondary Accession #	A8MXR7
UniProt Related Accession #	P09919
GenBank Nucleotide #	NM_000759.3
NCBI Official Full Name	granulocyte colony-stimulating factor isoform a
NCBI Official Synonym Full Names	colony stimulating factor 3
NCBI Official Symbol	CSF3
NCBI Official Synonym Symbols	GCSF; CSF3OS; C17orf33
UniProt Protein Name	Granulocyte colony-stimulating factor
UniProt Synonym Protein Names	Pluripoietin; INN: Filgrastim; INN: Lenograstim
UniProt Gene Name	CSF3
UniProt Synonym Gene Names	C17orf33; GCSF; G-CSF
NCBI Protein Information	granulocyte colony-stimulating factor
NCBI Summary for GCSF	The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of granulocytes. The active protein is found extracellularly. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, May 2010]
UniProt Comments for GCSF	Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. This CSF induces granulocytes.
Research Articles on GCSF	**1.** Cancer cells can produce IL-18, which is involved in the process of angiogenesis, stimulates invasion and metastasis. Decrease in SIPA for the production of IL-6 and GCSF by peripheral blood cells could serve as an indicator of malignant progression in invasive ductal breast carcinoma.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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