

Human G-CSF ELISA Kit | CSF3 elisa kit

Human G-CSF PicoKine ELISA Kit

CATALOG #
AAA11546

REACTIVITY
Human

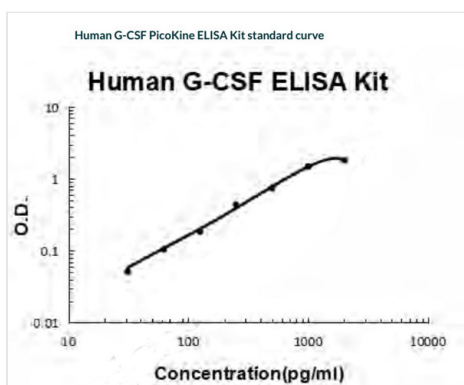
PRODUCT SYNONYMS

G-CSF; Human G-CSF PicoKine ELISA Kit; Granulocyte colony-stimulating factor; colony stimulating factor 3 (granulocyte); C17orf33; Colony stimulating factor 3 (granulocyte); CSF 3; CSF beta; CSF3; CSF3OS; Csfg; Filgrastim; GCSA; GCSF; Granulocyte colony stimulating fact; Lenograstim; Macrophage granulocyte inducer 2; MGC45931; MGI 2; MGI IG; OTTMUSP00000006785; Pluripoietin; RP23-395E10.4; CSF3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human CSF3
Sequence Length	207
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA, citrate)
Detection Range	31.2 pg/ml - 2,000 pg/ml
Sensitivity	<4 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision
Inter-assay Precision	Inter-Assay Precision (Precision accross assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CSF3 elisa kit

Background: Granulocyte colony-stimulating factor (G-CSF) is a member of the CSF family of hormone-like glycoprotein that regulates hematopoietic cell proliferation and differentiation, and it almost exclusively stimulates the colony formation of granulocytes from committed precursor cells in semisolid agar culture. G-CSF is also termed colony stimulating factor-3, and a single gene of which codes for a 177 or 180 amino acid mature protein of molecular weight 19,600. Functionally, it specifically stimulates the proliferation and differentiation of the progenitor cells for granulocytes. The effect of G-CSF on myeloid leukemias is unique among colony stimulating factors in driving the leukemic cells from a self-renewing malignant state to a mature differentiated phenotype with the concomitant loss of tumorigenicity. Besides, it also prevents cardiac remodeling after myocardial infarction by activating the Jak-Stat pathway in cardiomyocytes. The recombinant form of hG-CSF is capable of supporting neutrophil proliferation in a CFU-GM assay as well as early erythroid colonies and mixed colony formation. Human gene coding for G-CSF is assigned to the q21-q22 region of chromosome 17. The standard product used in this kit is recombinant human G-CSF, consisting of 175 amino acids with the molecular mass of 18.8KDa.

Principle of the Assay: The Picokine™ Human CSF3 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human CSF3 with a 96-well strip plate that is pre-coated with antibody specific for CSF3. The detection antibody is a biotinylated antibody specific for CSF3. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human CSF3 with immunogen: Expression system for standard: E.coli; Immunogen sequence: T31-P204. The kit is analytically validated with ready-to-use reagents. To measure Human CSF3, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human CSF3 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CSF3 in the sample.

NCBI AND UNIPROT INFORMATION

NCBI GI #	117564
NCBI GeneID	1440
UniProt Accession #	P09919; A8MXR7
Molecular Weight	18,434 Da
NCBI Official Full Name	Granulocyte colony-stimulating factor
NCBI Official Synonym Full Names	colony stimulating factor 3 (granulocyte)
NCBI Official Symbol	CSF3
NCBI Official Synonym Symbols	GCSF; CSF3OS; C17orf33
NCBI Protein Information	granulocyte colony-stimulating factor; filgrastim; lenograstim; pluripoiectin
UniProt Protein Name	Granulocyte colony-stimulating factor
UniProt Gene Name	CSF3
UniProt Synonym Gene Names	C17orf33; GCSF; G-CSF
UniProt Entry Name	CSF3_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/csf3-human-elisa-kits/g-csf/11546>