

Mouse G-CSF ELISA Kit | CSF3 elisa kit

Mouse G-CSF PicoKine ELISA Kit

CATALOG #
AAA45338

REACTIVITY
Mouse

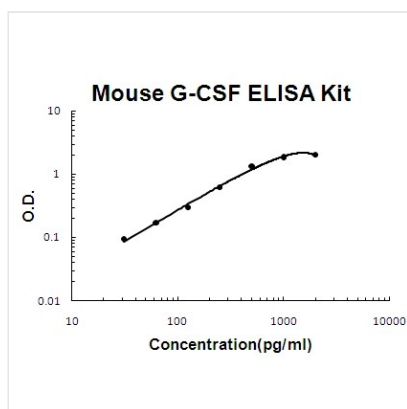
PRODUCT SYNONYMS

G-CSF; Mouse 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	Mouse
Specificity	Natural and recombinant mouse G-CSF
Sequence Length	208
Samples	Cell culture supernates, serum and plasma (heparin, EDTA)
Assay Type	Sandwich
Detection Range	31.2pg/ml-2000pg/ml
Sensitivity	< 4pg/ml
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)

Mouse G-CSF PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CSF3 elisa kit

Principle of the assay: mouse G-CSF ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for G-CSF has been precoated onto 96-well plates. Standards (E.coli,V31-A208) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for G-CSF is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse G-CSF amount of sample captured in plate.

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 semi-solid agar culture.¹ G-CSF is also termed colonystimulating 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.² 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 17.³ The standard product used in this kit is recombinant mouse G-CSF, consisting of 179 amino acids with the molecular mass of 19KDa.

NCBI AND UNIPROT INFORMATION

NCBI GI #	117565
NCBI GeneID	12985
UniProt Accession #	P09920
Molecular Weight	22,421 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	Csfg; G-CSF; MGI-IG
NCBI Protein Information	granulocyte colony-stimulating factor
UniProt Protein Name	Granulocyte colony-stimulating factor
UniProt Gene Name	Csf3
UniProt Synonym Gene Names	Csfg; G-CSF
UniProt Entry Name	CSF3_MOUSE

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-mouse-elisa-kits/g-csf/45338>