

Rat GM-CSF ELISA Kit | CSF2 elisa kit

Rat GM-CSF PicoKine ELISA Kit

CATALOG #
AAA45331

REACTIVITY
Rat

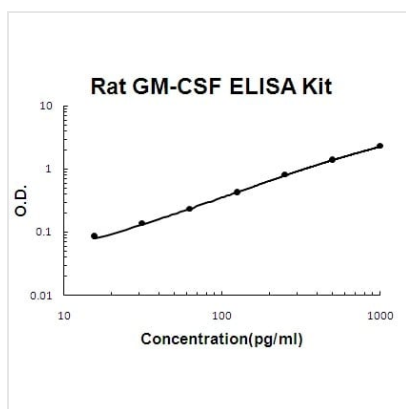
PRODUCT SYNONYMS

GM-CSF; Rat GM-CSF PicoKine ELISA Kit; Granulocyte-macrophage colony-stimulating factor; colony stimulating factor 2 (granulocyte-macrophage); Colony stimulating factor; Colony stimulating factor 2 (granulocyte macrophage); CSF; CSF 2; CSF2; GMCSF; Granulocyte macrophage colony stimulating factor; MGC131935; MGC138897; Molgramostin; Sargramostim; CSF2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat GM-CSF
Sequence Length	144
Samples	Cell culture supernates, serum and plasma (heparin, EDTA)
Assay Type	Sandwich
Detection Range	15.6pg/ml-1000pg/ml
Sensitivity	< 10pg/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)

Rat GM-CSF PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CSF2 elisa kit

Principle of the assay: rat GM-CSF ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for GM-CSF has been precoated onto 96-well plates. Standards (E.coli, A1-K127) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for GM-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 rat GM-CSF amount of sample captured in plate.

Background: Granulocyte-macrophage colony-stimulating factor (GM-CSF) is also symbolized CSF2. Human GM-CSF is a glycoprotein that is essential for the in vitro proliferation and differentiation of precursor cells into mature granulocytes and macrophages. The human cDNA clones contain a single open-reading frame encoding a protein of 144 amino acids with a predicted molecular mass of 16,293 daltons and show 69% nucleotide homology and 54% amino acid homology to mouse GM-CSF. The gene for human GM-CSF appears to exist as a single-copy gene.¹ Human GM-CSF is a 22,000-dalton glycoprotein that stimulates the growth of myeloid progenitor cells and acts directly on mature neutrophils. The GM-CSF gene is localized by somatic cell hybrid analysis and in situ hybridization to human chromosome region 5q21-5q32, which is involved in interstitial deletions in the 5q- syndrome and acute myelogenous leukemia.² A complementary DNA for the T lymphocyte-derived lymphokine, GM-CSF has been cloned, and recombinant GM-CSF protein has been expressed in yeast and purified to homogeneity. This purified human recombinant GM-CSF stimulates peripheral blood monocytes in vitro to become cytotoxic for the malignant melanoma cell line A375.³

NCBI AND UNIPROT INFORMATION

NCBI GI #	215273996
NCBI GeneID	116630
UniProt Accession #	P48750
Molecular Weight	16,562 Da
NCBI Official Full Name	Granulocyte-macrophage colony-stimulating factor
NCBI Official Synonym Full Names	colony stimulating factor 2 (granulocyte-macrophage)
NCBI Official Symbol	Csf2
NCBI Official Synonym Symbols	Gmcsf; Gm-csf
NCBI Protein Information	granulocyte-macrophage colony-stimulating factor; CSF
UniProt Protein Name	Granulocyte-macrophage colony-stimulating factor
UniProt Gene Name	Csf2
UniProt Synonym Gene Names	Csfgm; GM-CSF; CSF
UniProt Entry Name	CSF2_RAT

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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