Datasheet for ABIN6720194

G-CSF ELISA Kit

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Overview

Quantity:	1 kit
Target:	G-CSF (CSF3)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	Synonyms: 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 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. G-CSF is also termed colony stimulating factor-3, and

Product Details

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 17.3 The standard product used in this kit is recombinant Mouse G-csf, consisting of 179 amino acids with the molecular mass of 19KDa.

Gene Name: CSF3

Production: Natural and recombinant mouse G-CSF. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: V31-A208

Target Details

Target:	G-CSF (CSF3)
Alternative Name:	G-CSF (CSF3 Products)
Gene ID:	12985
NCBI Accession:	NP_034101
UniProt:	P09920
Pathways:	Cellular Response to Molecule of Bacterial Origin, Regulation of Actin Filament Polymerization

Application Details

Application Notes:	Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL mouse G-CSF standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each mouse G-CSF standard solution and each sample be measured in duplicate. Blood Product Anticoagulant: Heparin Sodium

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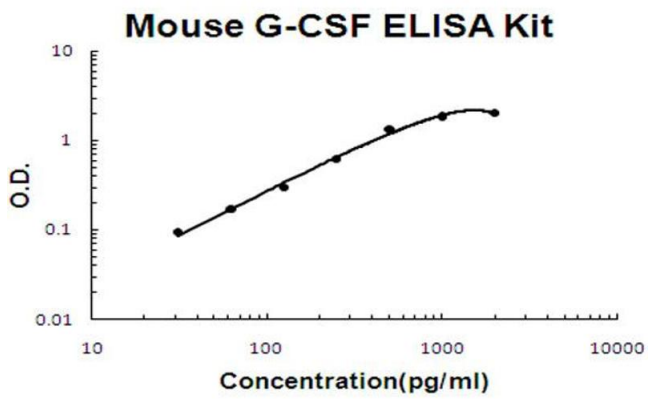
Application Details

	ELISA Dilution: 31.2pg/mL-2000pg/mL
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Images



ELISA

Image 1. Mouse G-CSF Accusignal ELISA Kit Mouse G-CSF AccuSignal ELISA Kit standard curve. Assay Range: 31.2pg/ml-2000pg/ml. Sensitivity: <4pg/ml.