

Datasheet for ABIN6720066

**GM-CSF ELISA Kit**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 kit
Target:	GM-CSF (CSF2)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	15.6 pg/mL - 1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

## Product Details

Purpose:	Mouse GM-CSF Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant mouse GM-CSF. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 1 pg/mL
Components:	<ul style="list-style-type: none"><li>• Antibody-coated 96-well plate</li><li>• Target Protein Standard</li><li>• Detection antibody</li></ul>

## Product Details

- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

## Target Details

Target:	GM-CSF (CSF2)
Alternative Name:	GM-CSF ( <a href="#">CSF2 Products</a> )
Background:	<p>Synonyms: Colony stimulating factor, Colony stimulating factor 2 (granulocyte macrophage), CSF, CSF 2, CSF2, GMCSF, Granulocyte macrophage colony stimulating factor, MGC141935, MGC138897, Molgramostin, Sargramostim</p> <p>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. 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. 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 A419. The standard product used in this kit is recombinant mouse GM-CSF, consisting of 125 amino acids with the molecular mass of 14.8KDa.</p>
Gene ID:	12981
NCBI Accession:	<a href="#">NP_034099</a>
UniProt:	<a href="#">P01587</a>
Pathways:	<a href="#">JAK-STAT Signaling, Cellular Response to Molecule of Bacterial Origin</a>

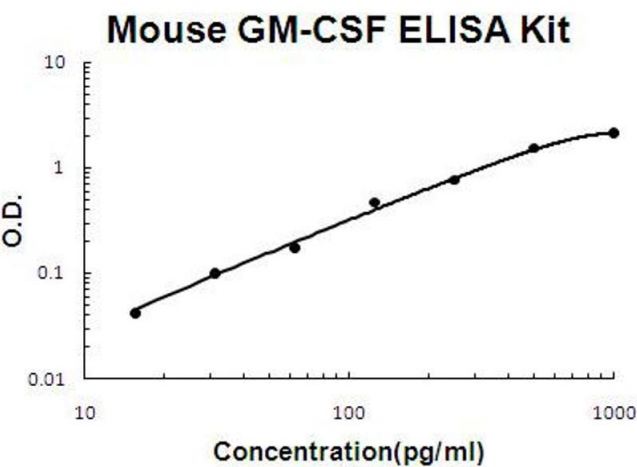
Application Details

Application Notes:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL mouse GM-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 GM-CSF standard solution and each sample be measured in duplicate.
Comment:	Standard: Expression system for standard: E.coli, Immunogen sequence: A18-K141
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	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.
Expiry Date:	12 months

Images



ELISA

**Image 1.** Mouse GM-CSF Accusignal ELISA Kit Mouse GM-CSF AccuSignal ELISA Kit standard curve. Assay Range: 15.6pg/ml-1000pg/ml. Sensitivity: <1pg/ml.