

Recombinant Mouse Csf2 protein

Cat. No. Csf2-303M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Csf2 protein was expressed in Escherichia coli.

Species Mouse

Source E.coli

ProteinLength 124

Description

Granulocyte-Macrophage Colony Stimulating Factor (GM-CSF) is secreted by a number of different cell types (including activated T cells, B cells, macrophages, mast cells, endothelial cells and fibroblasts) in response to cytokine or immune and inflammatory stimulation. It was initially characterized as a growth factor that can support the in vitro colony formation of granulocyte-macrophage progenitors and has functions of stimulates the growth and differentiation of hematopoietic precursor cells from various lineages. GM-CSF has also been reported to have a functional role on non-hematopoietic cells and can induce human endothelial cells to migrate and proliferate. Additionally, it can stimulate the proliferation of a number of tumor cell lines, including osteogenic sarcoma, carcinoma and adenocarcinoma cell lines. Mouse GM-CSF shares 54 % sequences identity with human GM-CSF, but has no biological effects across species. GM-CSF is used as a medication to stimulate the production of white blood cells following chemotherapy and has also recently been evaluated in clinical trials for its potential as a vaccine adjuvant in HIV-infected patients.

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Form	Lyophilized from a 0.2µm filtered solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine FDC-P1 cells is less than 0.05 ng/ml, corresponding to a specific activity of > 2.0 × 10 ⁷ IU/mg.
Molecular Mass	Recombinant murine GM-CSF is a 14.1 kDa globular protein consisting of 124 amino acids residues.
AA Sequence	APTRSPITVTRPWKHVEAIKEALNLLDDMPVTLNEEVEVVSNEFSFKKLTVCVQTRLKI FEQGLRGNFTKLGALNMTASYYYQTYCPPTPETDCETQVTTYADFDLSLKTFLTDIIPF ECKKPGQK
Endotoxin	Less than 1 EU/µg of rMuGM-CSF as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name Csf2

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Official Symbol	Csf2
Synonyms	CSF2; colony stimulating factor 2 (granulocyte-macrophage); granulocyte-macrophage colony-stimulating factor; CSF; put. GM-CSF; colony-stimulating factor; granulocyte-macrophage colony stimulating factor 2; Csfgm; GMCSF; Gm-CSf; MGI-IGM; MGC151255; MGC151257;
Gene ID	12981
mRNA Refseq	NM_009969
Protein Refseq	NP_034099
UniProt ID	P01587

SDS-PAGE of Csf2-303M

