

Active Recombinant Mouse Csf2 Protein (125 aa)

Cat. No. Csf2-391C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse GM-CSF produced in E. coli is a single non-glycosylated polypeptide chain containing 125 amino acids. A fully biologically active molecule, rmGM-CSF has a molecular mass of 14.3 kD analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species	Mouse
Source	E.coli
ProteinLength	125
Description	Granulocyte Macrophage Colony Stimulating Factor (GM-CSF) was initially characterized as a growth factor that can support the in vitro colony formation of granulocyte-macrophage progenitors. It is produced by a number of different cell types (including activated T cells, B cells, macrophages, mast cells, endothelial cells and fibroblasts) in response to cytokine and other immune and inflammatory stimuli. Besides granulocyte-macrophage progenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic cells, GM-CSF is a survival factor that activates effector functions of granulocytes, monocytes/macrophages and eosinophils.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 5 pg/mL, measured in a cell proliferation assay using mouse FDC-P1 cells, corresponding to a specific activity of >2 8 units/mg.

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Molecular Mass	14.3 kDa, observed by reducing SDS-PAGE.
AA Sequence	MAPTRSPITVTRPWKHVEAIKEALNLLDDMPVTLNEEVEVVSNEFSFKKLTQVQTRL KIFEQGLRGNFTKLKGALNMTASYQTYCPPTPETDCETQVTYADFIDSLKTFLTDI PFECKKPVQK
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 98% as analyzed by SDS-PAGE&HPLC.
Storage	Lyophilized recombinant Mouse GM-CSF remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Mouse GM-CSF should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Csf2 colony stimulating factor 2 (granulocyte-macrophage) [<i>Mus musculus</i>]
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

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mRNA Refseq	NM_009969
Protein Refseq	NP_034099
UniProt ID	P01587

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