GM-CSF/CSF2 Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	GM-CSF/CSF2, Recombinant Protein
Full Product Name	Recombinant Mouse GM-CSF/CSF2 Protein
Product Gene Name	GM-CSF/CSF2 recombinant protein
Product Synonym Names	Granulocyte-macrophage colony-stimulating factor; Csf2; GM-CSF; Colony-stimulating factor; Csfgm
Host	E Coli
Form/Format	Lyophilized from a 0.2 mum filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at < -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.
Molecular Weight	Molecular Mass: 14.2 kDa Actual Protein Molecular Mass: 15 kDa
Sequence Positions	Ala18-Lys141
3D Structure	ModBase 3D Structure for P01587
Species	Mouse
Endotoxin	<1.0 EU per mug as determined by LAL test.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GM-CSF/CSF2 recombinant protein	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 of immune and inflammatory stimuli. Besides granulocyte-macrophage progenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic, monocytes/macrophages and eosinophils. GM-CSF has a functional role on non-hematopoitic cells. It can induce human endothelial cells to migrate and proliferate. Additionally, GM-CSF can also stimulate the proliferation of a number of tumor cell lines, including osteogenic sarcoma, carcinoma and adenocarcinoma cell lines.
Other Notes	Small volumes of GM-CSF/CSF2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GM-CSF/CSF2 purchase	MBS2553508 is a recombinant protein targeting GM-CSF/CSF2. Also known as Recombinant Mouse GM-CSF/CSF2 Protein. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GM-CSF/CSF2. It may not necessarily be applicable to this product.

NCBI GI #	110625658
NCBI GeneID	12981
NCBI Accession #	NP_034099.2
UniProt Primary Accession #	P01587

UniProt Related Accession #	P01587
GenBank Nucleotide #	NM_009969.4
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	CSF; Csfgm; GMCSF; Gm-CSf; MGI-IGM
UniProt Protein Name	Granulocyte-macrophage colony-stimulating factor
UniProt Synonym Protein Names	Colony-stimulating factor; CSF
UniProt Gene Name	Csf2
UniProt Synonym Gene Names	Csfgm; GM-CSF; CSF
NCBI Protein Information	granulocyte-macrophage colony-stimulating factor
UniProt Comments for GM-CSF/CSF2	Cytokine that stimulates the growth and differentiation of hematopoietic precursor cells from various lineages, including granulocytes, macrophages, eosinophils and erythrocytes.
Research Articles on GM-CSF/CSF2	**1.** Data show that the microbiota enhances respiratory defenses via granulocyte-macrophage colony-stimulating factor (GM-CSF) signaling, which stimulates pathogen killing and clearance by alveolar macrophages
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