

Active GMP Recombinant Mouse Csf2 Protein, His-Tagged

Cat. No. Csf2-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP Recombinant Mouse Csf2 Protein, His-Tagged was expressed in Escherichia coli cell-derived in an animal component free process under cGMP guidelines.
Species	Mouse
Source	E.coli
Description	Enables cytokine activity. Acts upstream of or within several processes, including embryonic placenta development; myeloid leukocyte differentiation; and positive regulation of cell population proliferation. Located in extracellular space. Is expressed in several structures, including genitourinary system; hemolymphoid system; labyrinthine zone; liver; and lung. Used to study pulmonary alveolar proteinosis. Human ortholog(s) of this gene implicated in acute myeloid leukemia; juvenile myelomonocytic leukemia; neutropenia; pulmonary alveolar proteinosis; and visceral leishmaniasis. Orthologous to human CSF2 (colony stimulating factor 2)
Form	Lyophilized
Bio-activity	Measure by its ability to induce proliferation in FDC-P1 cells. The ED50 for this effect is <50 pg/mL. The specific activity of recombinant mouse GM-CSF is approximately >2x 10 ⁷ IU/mg.
AA Sequence	APTRSPITVTRPWKHVEAIKEALNLLDDMPVTLNEEVEVVSNEFSFKKLTQVQTRLKI FEQGLRGNFTKLKGALNMTASYYYQTYCPPTPETDCE TQVTYADFIDSLKTFLTDIPFECKKPVQK with polyhistidine tag at the N-terminus

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis. Purified by Ni-NTA chromatography.
Notes	Please use within one month after protein reconstitution.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

GENE INFORMATION

Gene Name	Csf2 colony stimulating factor 2 (granulocyte-macrophage) [Mus musculus (house mouse)]
Official Symbol	Csf2
Synonyms	CSF; Csfgm; GMCSF; Gm-CSf; MGI-IGM
Gene ID	12981
mRNA Refseq	NM_009969.4
Protein Refseq	NP_034099.2
UniProt ID	P01587

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