

Active GMP Recombinant Mouse Csf1 Protein, His-Tagged

Cat. No. Csf1-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP Recombinant Mouse Csf1 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	Macrophage Colony-Stimulating Factor (M-CSF), is a secreted cytokine which causes hematopoietic stem cells to differentiate into macrophages or other related cell types. The active form of M-CSF/CSF-1 is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. M-CSF/CSF-1 induces cells of the monocyte/macrophage lineage. It also plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy. Upregulation of M-CSF/CSF-1 in the infarcted myocardium may have an active role in healing not only through its effects on cells of monocyte/macrophage lineage, but also by regulating endothelial cell chemokine expression.
Form	Lyophilized
Bio-activity	Measure by its ability to induce proliferation in NFS-60 cells. The ED50 for this effect is <2 ng/mL. The specific activity of recombinant mouse M-CSF is approximately >5x 10 ⁵ IU/mg.
AA Sequence	MKEVSEHCSHMIGNGHLKVLQQLIDSQMETSCQIAFEFVDQEQLDDPVCYLKKAFFL

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VQDIIDETMRFKDNTPNANATERLQELSNLNSC
FTKDYEEQNKACVRTFHETPLQLLEKIKNFFDETKNLLEKDOWNIFTKNCNNSFAKCS
SRDVVTKP with polyhistidine tag at the C-terminus

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 8.0.
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	Csf1 colony stimulating factor 1 (macrophage) [Mus musculus (house mouse)]
Official Symbol	Csf1
Synonyms	op; Csfm; MCSF; BAP025; Mhdabap25
Gene ID	12977
mRNA Refseq	NM_001113529.1

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Protein Refseq	NP_001107001.1
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UniProt ID	P07141
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