

Recombinant Murine Macrophage Colony Stimulating Factor (rm M-CSF)

M-CSF is a potent hematopoietic factor produced by a variety of cells including lymphocytes, monocytes, fibroblasts, endothelial cells, myoblasts and osteoblasts. It is a key regulator of cellular proliferation, differentiation, and survival of blood monocytes, tissue macrophages and their progenitor cells. M-CSF has been shown to play important roles in modulating dermal thickness, and male and female fertility. M-CSF is clinically used in the treatment of infection, malignancies and atherosclerosis. It facilitates hematopoietic recovery after bone marrow transplantation. The human is reactive in murine systems, but the murine molecule exhibits no activity on human cells. Recombinant murine M-CSF is a 36.4 kDa homodimeric protein containing two 156 amino acid polypeptide subunits.

Synonyms : CSF-1, MGI-IM, Lanimostim

Source: *Escherichia coli*

AA Sequence: MKEVSEHCSHMIGNHGLKVL QQLIDSQMETSCQIAFEFVD
QEQLDDPVCYLKKAFFLVQD IIDETMRFKDNTPNANATER
LQELSNLNSCFTKDYEEQN KACVRTFHETPLQLLEKIKN
FFNETKNLLEKDOWNIFTKNC NNSFAKCSSRDVVTKP

Formulation: The lyophilized protein (1mg/ml) was lyophilized with 5 mM Tris, pH 8.0 + 100mM NaCl

Reconstitution: Reconstitute in sterile endotoxin free water not less than 100 µg/ml

Stability: The lyophilized protein is stable for at least 2 years at -20°C. Reconstituted rm M-CSF is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at -20°C. Avoid repeated freeze/thaw cycles.

Biological Activity: The ED₅₀ tested by receptor driven reporter gene expression in Ba/F3 c-fms transfectants was found < 1 ng/ml, corresponding to a specific activity of 1 x 10⁶ IU/mg.

Purity: 95% (verified by SDS-PAGE / silver stain)

Endotoxicity: The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method

Order N°: rm M-CSF+Size
available sizes: 2 µg, 10 µg, 50 µg

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