



Recombinant Mouse M-CSF
(Macrophage Colony Stimulating Factor)

Catalog Number: 200-08
Accession Number: P07141

Specifications and Uses:

Alternate Names: MGI-IM, CSF-1

Description:

Macrophage Colony Stimulating Factor (M-CSF) is hematopoietic growth factor produced by a wide variety of cells. M-CSF is known to stimulate differentiation of hematopoietic stem cells to monocyte-macrophage cell populations in culture. M-CSF acts through the CSF receptor 1. Although human M-CSF shows activity on mouse cells, mouse CSF shows no activity on human cells. Recombinant mouse M-CSF is a disulfide-linked homodimer, containing two 159 amino acid chains, with a total molecular weight of 36.8 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant mouse M-CSF is lyophilized from 0.5 x PBS, pH 8.0.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically ≥ 98%) determined by:

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

Biological Activity:

The activity is determined by dose-dependent induction of M-NFS-60 cell proliferation and is typically 0.5-3 ng/mL.

AA Sequence:

MKEVSEHCSH MIGNGHLKVL QQLIDSQMET SCQIAFEFVD QEQLDDPVCY LKKAFFLVQD IIDETMRFKD
NTPNANATER LQELSNLNS CFTKDYEEQN KACVRTFHET PLQLEKIKN FFNETKNLLE KDWNIFTKNC
NNSFAKCSSR DVVTKP

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

Gentaaur Molecular Products
Voortstraat 49
1910 Kampenhout, Belgium