

Datasheet

Macrophage Colony Stimulating Factor

Murine Recombinant

Product	Description	Catalogue-No.	Size
M-CSF	Macrophage colony stimulating factor, murine recombinant	P-4390002 P-4390010	2 µg 10 µg

Product description

Synonyms: MCSF, CSF-1, lanimostim

Granulocyte-macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of two related white cell populations of the blood, the granulocytes and the monocytes-macrophages. M-CSF induces cells of the monocyte/macrophage lineage. Macrophage colony stimulating factor (M-CSF) plays a role in immunological defenses, bone metabolism, lipoprotein clearance, fertility and pregnancy. M-CSF (murine recombinant, produced in *E. coli*) is a non-glycosylated, disulfide-linked homodimer polypeptide chain containing 2 x 156 amino acids and having a total molecular mass of 36.4 kD. M-CSF is purified by proprietary chromatographic techniques.

Solubility and storage conditions

It is recommended to reconstitute the lyophilized M-CSF in sterile, distilled water not less than 100 µg/ml which can then be further diluted to other aqueous solutions. Lyophilized M-CSF although stable at room temperature for 3 weeks, should be stored desiccated below -20° C. Upon reconstitution M-CSF can be stored at 2-8° C for up to 7 days and should be stored for future use below -20° C. Please prevent freeze-thaw cycles.

Composition

Sterile filtered white lyophilized (freeze-dried) powder. The protein was lyophilized from 0.5 x PBS, pH 8.0.

Purity: Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Biological activity: The ED50, as calculated by the dose-dependent stimulation of the proliferation of murine M-NFS-60 indicator cells is typically 1.1 - 1.6 ng/ml corresponding to 900,000-600,000 U/mg

Amino acid sequence: MKEVSEHCSH MIGNGHLKVL QQLIDSQMET SCQIAFEFVD QEQLDDPVCY LKKAFFLVQD IIDETMRFKD NTPNANATER LQELSNLNS CFTKDYEEQN KACVRTFHET PLQLLEKIKN FFNETKNLLE KDWNIFTKNC NNSFAKCSSR DVVTKP

Suitability

FOR RESEARCH USE ONLY!

Not approved for human or animal diagnostic or therapeutic procedures.

Technical Support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.