

Datasheet

Macrophage Colony Stimulating Factor

Human Recombinant

Product	Description	Catalogue-No.	Size
M-CSF	Macrophage colony stimulating factor, human recombinant	CB-1123000 CB-1123001 CB-1123003	2 µg 10 µg 100 µg

Product description

Synonyms: MCSF, CSF-1, Ianimostim

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. M-CSF plays a role in immunological defenses, bone metabolism, lipoprotein clearance, fertility and pregnancy. M-CSF (human recombinant, produced in *E. coli*) is a non-glycosylated, disulfide -inked homodimer polypeptide chain containing 2 x 159 amino acids and having a total molecular mass of 36.8 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 at 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 -18° 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 -18° C. Please prevent freeze-thaw cycles.

Composition

Sterile filtered white lyophilized (freeze-dried) powder. The M-CSF protein was lyophilized with 10 mM sodium phosphate, pH 8.0 and 50 mM NaCl.

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

Biological activity: The ED50, calculated by the dose-dependent stimulation of the proliferation of murine M-NFS-60 indicator cells was found to be < 2.0 ng/ml, corresponding to a specific activity of 500 U/mg.

Amino acid sequence: the sequence of the first five N-terminal amino acids of MCSF was determined and found to be Met-Glu-Glu-Val-Ser.

Suitability

FOR RESEARCH USE ONLY!

Not approved for human or animal diagnostic or therapeutic procedures.

Technical Support

Additional information will be available on our website: www.pan-biotech.com

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.