



11 Park Drive, Suite 12
Boston, MA 02215

Human Macrophage-Colony Stimulating Factor (M-CSF)

ORDERING INFORMATION

Catalog No: rAP-0076;

Size: 2 µg; 10 µg

Storage: <- 20° C

Synonyms:

CSF-1, Lanimostim, MCSF, MGC31930, M-CSF.

Introduction:

Granulocyte/Macrophage Colony-Stimulating Factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. CSF-1 induces cells of the monocyte/macrophage lineage. It plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy.

Description:

Macrophage Colony Stimulating Factor Human Recombinant produced in E.coli is a disulfide linked homodimer, non-glycosylated, polypeptide chain containing 2 x 159 amino acids and having a total molecular mass of 36.8 KD.

MCSF is purified by proprietary chromatographic techniques.

Source:

Escherichia Coli.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

The lyophilized protein (1mg/ml) was lyophilized with 0.1gr HSA and 0.6gr Manntiol.

Solubility:

It is recommended to reconstitute the lyophilized M-CSF in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized Macrophage Colony Stimulating Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MCSF should be stored at 4°C between 2-7 days and for future use below -18°C.

Please prevent freeze-thaw cycles.

Amino acid sequence:

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

Purity:

Greater than 98.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

Contact & Ordering Information: Angio-Proteomie, 11 Park Drive, Suite 12, Boston, MA 02215, USA. Fax: (480) 247-4337, angioproteomie@gmail.com



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Biological Activity:

The ED50, calculated by the dose-dependant stimulation of the proliferation of murine M-NFS-60 indicator cells was found < 5ng/ml, corresponding to a Specific Activity of 2×10^5 IU/mg

Usage:

Angio-Proteomie's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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