

RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Recombinant Mouse Macrophage Colony Stimulating Factor

Catalog No.
228-11066

Source:
E. Coli

Synonyms:

CSF-1, Lanimostim, MCSF, 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 Mouse Recombinant produced in E.coli is a disulfide linked homodimer, non-glycosylated, polypeptide chain containing 2 x 156 amino acids and having a total molecular mass of 36.4 KD.

MCSF is purified by proprietary chromatographic techniques.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

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

Purity:

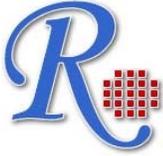
Greater than 98.0% as determined by(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

Solubility:

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

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Stability:

Lyophilized M-CSF 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-Lys-Glu-Val-Ser.

Biological Activity:

The ED50, calculated by the dose-dependant stimulation of the proliferation of murine M-NFS-60 indicator cells was found < 1ng/ml, corresponding to a Specific Activity of 1 x 1,000,000 IU/mg.

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