



Macrophage Colony Stimulating Factor, human recombinant (rHuM-CSF)

Catalog No: 60530
Lot No: XXXXX
Source: *E. coli*
Synonyms: Macrophage Colony Stimulating Factor, CSF-1, Lanimostim, MCSF, MGC31930, M-CSF

Background

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. MCSF induces cells of the monocyte/macrophage lineage. MCSF 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 37.1 kDa. MCSF is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

MCSF (1 mg/ml) was lyophilized with 10 mM NaP, pH 8.0 and 50 mM NaCl.

Solubility

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

Stability

Lyophilized MCSF, 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.

Purity

Greater than 95% as determined by SDS-PAGE.

Amino Acid Sequence

MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ
LQELSLRLKS CFTKDYEHD KACVRTFYET PLQLLEKVKV VFNETKNLLD KDOWNIFSKNC NNSFAECSSQ GHERQSEGS

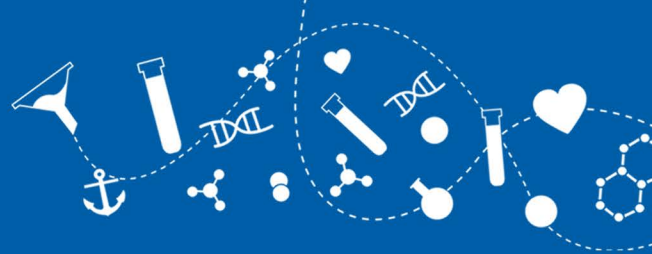
Activity

The ED₅₀, calculated by the dose-dependent stimulation of the proliferation of murine M-NFS-60 indicator cells was found to be 1.15 ng/ml corresponding to a specific activity of 8.7 x 10⁵ units/mg.

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