
Product Data Sheet

Product Name: M CSF Human

Cat. No.: GP20732

Batch No.: 1

Product Data

Purity	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.	Source	Escherichia Coli.
Physical Appearance	Crystalline body	Shipping Condition	Shipped at Room temp.
Synonyms	Macrophage Colony Stimulating Factor; CSF-1; Lanimostim; MCSF; MGC31930; M-CSF.		
Amino Acid Sequence	MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ LQELSLRLKS CFTKDYEEHD KACVRTFYET PLQLLEKVKN VFNETKNLLD KDWNIFSKNC NNSFAECSSQ GHERQSEGS.		
Solubility	It is recommended to reconstitute the lyophilized MCSF in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The MCSF protein was lyophilized with 10mM sodium Phosphate, pH-8.0 & 50mM NaCl.		

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. MCSF induces cells of the monocyte/macrophage lineage. MCSF plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy.

Biological Activity

The ED50, calculated by the dose-dependent stimulation of the proliferation of murine

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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M-NFS-60 indicator cells was found to be < 1.4-2.1ng/ml.

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.

Background

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.

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