
Product Data Sheet

Product Name: M CSF Human, Baculovirus

Cat. No.: GP20733

Batch No.: 1

Product Data

Purity	>98%	Source	Baculovirus infected Silkworm.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	CSF-1; Lanimostim; MCSF; MGC31930; M-CSF; Macrophage colony-stimulating factor 1; CSF1.		
Amino Acid Sequence	EEVSEYCSHM IGSGHLQSLQ RLIDSQMETS CQITFEFVDQ EQLKDPVCYL KKAFLLVQDI MEDTMRFRDN TPNAIAIVQL QELSLRLKSC FTKDYEEHDK ACVRTFYETP LQLEKVKNV FNETKNLLDK DWNIFSKNCN NSFAECSSQ.		
Solubility	It is recommended to reconstitute the lyophilized M-CSF in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The lyophilized protein (1mg/ml) was lyophilized with 20mM phosphate buffer, 1% HSA and 3% manntiol.		

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.

Biological Activity

The ED₅₀, calculated by the dose-dependant stimulation of the proliferation of murine M-NFS-60 indicator cells was found < 3ng/ml, corresponding to a specific activity of less than 333,333.33units/mg.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

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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.

Background

Macrophage Colony Stimulating Factor Human Recombinant produced in Baculovirus is a disulfide linked homodimer, glycosylated, polypeptide chain containing 2 x 149 amino acids and having a total molecular mass of 42 kDa. MCSF is purified by proprietary chromatographic techniques.

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