
Product Data Sheet

Product Name: M CSF Rat
 Cat. No.: GP20738
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Macrophage colony-stimulating factor 1; CSF-1; MCSF; Csf1; Csfm.		
Amino Acid Sequence	MEVSEHCSHM IGNGHLQILQ QLIDSQMETA CLIEYKFVDQ EQLDDPVCYL KKAFLVQVI IEETMRFKDN TPNANATERL QELSMKLNCS FIKDYKEQNE ACVQTYKESP LRLLEKIKNF FNETKNFLEK DWNIFSKNCN DSLAKCSSRD VVTKP.		
Solubility	It is recommended to reconstitute the lyophilized MCSF in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a sterile filtered aqueous solution containing 10mM Na ₃ PO ₄ , pH 7.5.		

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 activity as determined by dose-dependent induction of M-NFS-60 cell proliferation is 1.65 ng/ml. This corresponds to an expected specific activity of 6.1x10⁵ units/mg.

Stability

Lyophilized MCSF although stable at room temperature for 3 weeks, should be stored

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

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desiccated below -18°C . Upon reconstitution MCSF should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Macrophage Colony Stimulating Factor Rat Recombinant produced in E.coli is a non-glycosylated homodimer, containing 2 x 155 amino acids and having a total molecular mass of 36.2 kDa. MCSF is purified by proprietary chromatographic techniques.

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