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**Product Data Sheet**


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Product Name: M CSF Human, Sf9 His

Cat. No.: GP20734

Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Macrophage colony-stimulating factor 1; CSF-1; M-CSF; MCSF; Lanimostim.		
Amino Acid Sequence	EEVSEYCSHM IGSGHLQSLQ RLIDSQMETS CQITFEFVDQ EQLKDPVCYL KKAFLLVQDI MEDTMRFRDN TPNAIAIVQL QELSLRLKSC FTKDYEEHDK ACVRTFYETP LQLEKVKNV FNETKNLLDK DWNIFSKNCN NSFAECSSQD VVTKPDCNCL YPKAIPSSDP ASVSPHQPLA PSMAPVAGLT WEDSEGTEGS SLLPGEQPLH TVDPGSAKQR PPRLEHHHHH H.		
Formulation	MCSF protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

**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**

Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cell. The ED50 for this effect is less or equal to 3 ng/ml.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

MCSF produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 231 amino acids (33-255 a.a.) and having a molecular mass of 26.1kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). MCSF is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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