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## Product Data Sheet

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Product Name: MCSF Mouse, Sf9  
 Cat. No.: GP26061  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	with Ice Packs
Synonyms	M-Csf, Macrophage colony-stimulating factor 1, CSF-1, MCSF, Csf1, C87615, MCSF, op, Processed macrophage colony-stimulating factor 1.		
Amino Acid Sequence	ADPKEVSEHC SHMIGNGHLK VLQQLIDSQM ETSCQIAFEF VDQEQLDDPV CYLKKAFFLVQDIIDETMRF KDNTPNANAT ERLQELSNL NSCFTKDYEE QNKACVRTFH ETPLQLLEKIKNFFNETKNL LEKDWNIFTK NCNNSFAKCS SRDVVTKPHH HHHH		
Formulation	The MCSF solution (1mg/ml) contains 10% Glycerol and Phosphate-Buffered Saline (pH 7.4).		

### Introduction

Macrophage Colony Stimulating Factor (M-CSF) or colony stimulating factor 1, is a cytokine, that promoted differentiation in hematopoietic stem cells to macrophages. Another role of M-CSF is to bind to its receptor (colony stimulating factor 1 receptor) and to take part in placenta growth and development.

### Biological Activity

Determined by cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. ED50 range for this effect is  $\leq 4$  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% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**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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MCSF Mouse produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 164 amino acids (33-187 aa) and having a molecular mass of 19.1 kDa. MCSF is fused to a 6 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

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