



Macrophage Colony-Stimulating Factor 1 (M-CSF) Mouse, His Tag, Sf9 Insect Cells Recombinant Protein

Product Data Sheet

Cat. No.:	A31141002	A31141010	A31141100
Size:	2 µg	10 µg	100 µg

Description:

Macrophage Colony-Stimulating Factor 1 (M-CSF) Mouse, Sf9 Insect Cells Recombinant Protein is a single, glycosylated polypeptide chain containing 164 amino acids (33-187 aa) and has a molecular mass of 19.1 kDa. The M-CSF is fused to a 6 amino acid His tag at C-terminus and is purified by proprietary chromatographic techniques.

Summary:

Macrophage colony-stimulating factor (M-CSF) is a cytokine that plays an essential role in the regulation of survival, proliferation and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes. Promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. Plays an important role in the regulation of osteoclast proliferation and differentiation, the regulation of bone resorption, and is required for normal bone development. Required for normal male and female fertility. Promotes reorganization of the actin cytoskeleton, regulates formation of membrane ruffles, cell adhesion and cell migration. Plays a role in lipoprotein clearance. [Reference: [UniProtKB - P07141 \(CSF1_MOUSE\)](#)].

Amino Acid Sequence:

ADPKEVSEHC SHMIGNHGLK VLQQLIDSQM ETSCQIAFEF VDQEQLDDPV CYLKKAFFLV
QDIIDETMRF KDNTPNANAT ERLQELSNL NSCFTKDYEE QNKACVRTFH ETPLQLLEKI
KNFFNETKNL LEKDOWNIFTK NCNNSFAKCS SRDVVTKPHH HHHH.

Other Names:

Bioactive Murine M-CSF, CSF-1, CSF1 gene product, MCSF

update.: 092021

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**Source:**

Baculovirus infected Sf9 (*Spodoptera frugiperda*) insect cells.

Purity:

Greater than 90.0% as determined by SDS-PAGE.

Physical Appearance:

Sterile Filtered colorless solution.

Formulation:

The M-CSF solution (1 mg/ml) contains 10% Glycerol and Phosphate-Buffered Saline (pH 7.4).

Biological Activity:

Determined by cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. ED₅₀ range for this effect is ≤ 4 ng/ml.

Shipping:

Shipped on regular ice packs. Upon receipt, store the product at the temperature recommended below.

Stability:

Store at 4° C if entire vial will be used within 2-4 weeks. For longer periods of time, store frozen at -20° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Avoid multiple freeze-thaw cycles.**

Usage:

Ilex Life Sciences products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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