



## Macrophage Colony-Stimulating Factor 1 (M-CSF) Human, His Tag, E. coli Recombinant Protein

### Product Data Sheet

Cat. No.:	A3695005	A36950	A36951MG
Size:	5 µg	25 µg	1 mg

#### Description:

Macrophage Colony-Stimulating Factor 1 (M-CSF) Human, His Tag, E. coli Recombinant Protein is a single, non-glycosylated, polypeptide chain containing 179 amino acids (33-190 a.a.) and has a total molecular mass of 20.7 kDa. The M-CSF is fused to a 20 amino acid His Tag at N-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 - A0A024R0A1 \(CSF1\\_HUMAN\)](#)].

#### Amino Acid Sequence

MGSSHHHHHH SSGLVPRGSH MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY  
LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ LQELSLRLKS CFTKDYEEHD KACVRTFYET PLQLLEKVKV  
VFNETKNLLD KDWNIFSKNC NNSFAECSSQ DVVTKPDCN.

#### Other Names:

His-Tagged M-CSF, CSF-1, CSF1 gene product, MCSF

update.: 092021

#### Ilex Life Sciences LLC

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**Source:**

E. coli

**Purity:**

Greater than 90.0% as determined by SDS-PAGE.

**Physical Appearance:**

Sterile filtered colorless solution.

**Formulation:**

The M-CSF protein solution contains 20mM Tris-HCl, pH-8, 2mM DTT, and 10% Glycerol.

**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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