

## M-CSF/CSF1 Protein, Human, Recombinant (His)

### General Information

Synonyms:	Lanimostim;M-CSF;CSF-1;MCSF;CSF1;Macrophage Colony-Stimulating Factor 1
Protein Construction:	Glu33-Arg255
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P09603
Molecular Weight:	41 KDa (reducing condition)
AA Sequence:	Glu33-Arg255

### QC Testing

Biological Activity:	Measured in a cell proliferation assay using M-NFS-60 mouse lymphoblast cells.The ED50 for this effect is 2-10 ng/mL. (QC verified)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.001 ng/μg (0.01 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, 4% Mannitol, pH 7.2.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Macrophage Colony-Stimulating Factors (m-csf) 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 monocytes-macrophages. CSF-1 promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. It also plays an important role in the regulation of osteoclast proliferation and differentiation, the regulation of bone resorption, and is required for normal bone

## A DRUG SCREENING EXPERT

---

development. CSF-1 is required for normal male and female fertility and promotes reorganization of the actin cytoskeleton, regulates formation of membrane ruffles, cell adhesion and cell migration. it also plays a role in lipoprotein clearance.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481