

## 32-12238: Human Macrophage-Colony Stimulating Factor (AF)

**Gene :** CSF1  
**Gene ID :** 1435  
**Uniprot ID :** P09603  
**Alternative Name :** Macrophage colony-stimulating factor 1, Å CSF-2

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:** Å Dimer, 18.5/37.1 kDa (159/318 aa)

Macrophage colony stimulating factor (M-CSF) is a hematopoietic growth factor that is widely produced by a variety of cells. M-CSF stimulates the proliferation and differentiation of hematopoietic stem cells into monocyte and macrophage cell types. M-CSF also acts through the colony stimulating factor 1 receptor (CSF1R) to modulate processes involved in immunology, bone metabolism, fertility, and pregnancy. Human M-CSF shows activity on mouse cells; however, mouse M-CSF shows no activity on human cells.

### Product Info

**Amount :** 10 µg / 100 µg  
**Purification :** Reducing and Non-Reducing SDS PAGE at >= 95%  
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 100 mM sodium chloride, pH 8.0  
Sterile water at 0.1 mg/mL  
**Storage condition :** Store at -20°C  
**Amino Acid :** MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD  
NTPNAIAIVQ LQELSLRLKS CFTKDYEEHD KACVRTFYET PLQLLEKVKVNFNETKNLLD KDWNIFSKNC  
NNSFAECSSQ GHERQSEGS

### Application Note

**Endotoxin:** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.

Biological Activity was determined by NFS-60 cell proliferation at <=10 ng/mL; >= 1.0 x 10<sup>5</sup> units/mg . Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80Å°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss. Å



