

32-12240: Mouse Macrophage-Colony Stimulating Factor (AF)

Gene : Csf1
Gene ID : 12977
Uniprot ID : P07141
Alternative Name : Macrophage colony-stimulating factor 1, CSF-1

Description

Source: Genetically modified E.coli.

Predicted MW: Dimer, 18.2/36.4 kDa (156/312 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 $\geq 95\%$
Content : Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5
Sterile water at 0.1 mg/mL
Storage condition : Store at -20°C
Amino Acid : MKEVSEHCSH MIGNGHLKVL QQLIDSQMET SCQIAFEFVD QEQLDDPVCY LKKAFFLVQD IIDETMRFKD
NTPNANATER LQELSNLNS CFTKDYEEN KACVRTFHET PLQLEKIKN FFNETKNLE KDOWNIFTKNC
NNSFAKCSSR DVVTKP

Application Note

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

Biological Activity was determined by NFS-60 cell proliferation at ≤ 10 ng/mL; $\geq 1.0 \times 10^5$ 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 -80°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.



