

32-20396: Animal-Free Recombinant Human M-CSF(Discontinued)

Reactivity : Human, Monkey, Mouse, Rat
Alternative Name : Macrophage Colony Stimulating Factor, CSF-1, MGI-IM

Description

Source: *E.coli* M-CSF is a potent hematopoietic factor produced by a variety of cells, including lymphocytes, monocytes, fibroblasts, endothelial cells, myoblasts and osteoblasts. It is a key regulator of cellular proliferation, differentiation, and survival for blood monocytes, tissue macrophages, and their respective progenitor cells. M-CSF has been shown to play important roles in modulating dermal thickness and fertility. M-CSF is clinically used in the treatment of infection, malignancies and atherosclerosis. It facilitates hematopoietic recovery after bone marrow transplantation. Human M-CSF is reactive in murine systems, but the murine molecule exhibits no activity on human cells. Recombinant Human M-CSF is a 36.8 kDa homodimeric protein consisting of two 159 amino acid polypeptide subunits.

Product Info

Amount : 2 µg / 10 µg
Purification : Purity: >= 98% by SDS-PAGE gel and HPLC analyses.
Content : This recombinant protein is supplied in lyophilized form.
Amino Acid : MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD
NTPNAIAIVQ LQELSLRLKS CFTKDYEEHD KACVRTFYET PLQLLEKVKVNFNETKNLLD KDWNIFSKNC
NNSFAECSSQ GHERQSEGS

Application Note

The ED_{50} was determined by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells is ≤ 1.0 ng/ml, corresponding to a specific activity of $\geq 1 \times 10^6$ units/mg.