

32-20512: Recombinant Rat M-CSF(Discontinued)

Reactivity : 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 Rat M-CSF is a 36.2 kDa homodimeric protein consisting of two 155 amino acid polypeptide subunits.

Product Info

Amount : 2 µg / 10 µg

Purification : Purity: $\geq 98\%$ by SDS-PAGE gel and HPLC analyses.

Content : This recombinant protein is supplied in lyophilized form.

Amino Acid : MEVSEHCSHM IGNGHLQILQ QLIDSQMETA CLIEYKFVDQ EQLDDPVCYL KKAFLVLVQVI
IEETMRFKDN TPNANATERL QELSMKLNLC FIKDYKEQNE ACVQTYKESP LRLLEKIKNF
FNETKNFLEK DWNIFSKNCN DSLAKCSSRD VVTKP

Application Note

The ED_{50} was determined by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells is ≤ 5.0 ng/ml, corresponding to a specific activity of $\geq 2 \times 10^5$ units/mg.