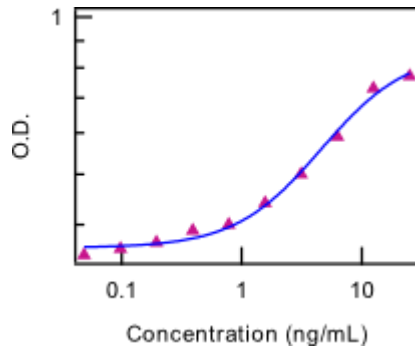


Human M-CSF Recombinant Protein

Catalog Number: 14-8789

Also known as: Macrophage colony stimulating factor, monocyte colony stimulating factor

RUO: For Research Use Only. Not for use in diagnostic procedures.



Proliferation of M-NFS-60 cells induced by Human M-CSF Recombinant Protein.

Product Information

Contents: Human M-CSF Recombinant Protein

REF **Catalog Number:** 14-8789

Handling Conditions: For best recovery, always quick-spin vial prior to opening. For dilution of current stock, always include carrier protein (1% BSA or 10% FBS) in the buffered saline diluent.

Source: Human M-CSF Glu34-Ser190 accession # NM-172211 expressed in insect cells with a C-terminal 6X His tag.

Purity: > 98%, as determined by SDS-PAGE

Endotoxin: Less than 0.01 ng/ug cytokine as determined by the LAL assay.

Bioactivity: The bioactivity of this protein, as determined in a cell proliferation assay on M-NFS-60 cells, is 3ng/mL. This corresponds to a specific activity of 3.3×10^5 Units/mg.

Formulation: Sterile liquid; phosphate-buffered saline 1% BSA, 0.22 um filtered.

Temperature Limitation: Store at less than or equal to -70°C .

Batch Code: Refer to vial

Use By: Refer to vial



Description

Human Macrophage Colony Stimulating Factor (M-CSF, also called CSF-1) is a ~36 kDa disulfide-linked homodimer produced by a variety of cells including fibroblasts, macrophages, bone marrow stromal cells and endothelial cells. M-CSF regulates macrophage survival, proliferation and differentiation. M-CSF also enhances macrophage killing of tumor cells and microorganisms and regulates cytokine production from macrophages.

Applications Reported

Recombinant human M-CSF is biologically active and can promote proliferation of M-NFS-60 cells in culture.

Applications Tested

The bioactivity of this protein, as determined in a cell proliferation assay on M-NFS-60 cells, is 3ng/mL. This corresponds to a specific activity of 3.3×10^5 Units/mg.

References

Boosman, A. et al. 1987. Partial primary structures of human and murine macrophage colony stimulating factor (CSF-1). *Biochem. Biophys. Res. Commun.* 144: 74-80.

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Pollard, J. W. et al. 1987. Apparent role of the macrophage growth factor, CSF-1, in placental development. *Nature* 330: 484-486.

Wiktor-Jedrzejczak, W. et al. 1990. Total absence of colony-stimulating factor 1 in the macrophage-deficient osteopetrotic (op/op) mouse. *Proc. Nat. Acad. Sci.* 87: 4828-4832.

Related Products

12-0689 Anti-Human CD68 PE (eBioY1/82A (Y1/82A))

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