

**DATASHEET**  
Version 20181206**M-CSF, Human(CHO-expressed)****Cat. No.:** Z02924-1**Size:** 1.0 mg**Synonyms:** CSF1, CSF-1, MCSF**Description:**

Human Macrophage-Colony Stimulating Factor (M-CSF), also known as Colony Stimulating Factor-1 (CSF-1), can stimulate the survival, proliferation and differentiation of mononuclear phagocytes, in addition to the spreading and motility of macrophages. M-CSF is mainly produced by monocytes, macrophages, fibroblasts, and endothelial cells. M-CSF interaction with its receptor, c-fms, has been implicated in the growth, invasion, and metastasis of several diseases, including breast and endometrial cancers.

**Amino Acid Sequence:**

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00001 EEVSEYCSHM IGSGLQLSLQ RLIDSQMETS CQITFEFVDQ
00041 EQLKDPVCYL KKAFLLVQDI MEDTMRFRDN TPNAIAIVQL
00081 QELSLRLKSC FTKDYEEHDK ACVRTFYETP LQLEKVKNV
00121 FNETKNLLDK DWNIFSKNCN NSFAECSSQG HERQSEGS
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**Source:** CHO**Species:** Human**Biological Activity:** ED<sub>50</sub> < 5 ng/ml, measured in a cell proliferation assay using Murine M-NFS-60 cells, corresponding to a specific activity of > 2×10<sup>5</sup> units/mg.**Molecular Weight:** 32-40 kDa, observed by non-reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100 µg/ml.**Purity:** > 95% as analyzed by SDS-PAGE and HPLC.**Endotoxin Level:** <0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant human Macrophage-Colony Stimulating Factor (rhM-CSF) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhM-CSF should be stable up to 1 week at 4°C or up to 2 months at -20°C.