

**DATASHEET**  
Version 20181206**M-CSF, Mouse****Cat. No.:** Z02930-1**Size:** 1.0 mg**Synonyms:** CSF1, CSF-1, MCSF**Description:**

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 KEVSEHCSHM IGNGHLKVLQ QLIDSQMETS CQIAFEFVDQ
00041 EQLDDPVCYL KKAFFLVQDI IDETMRFKDN TPNANATERL
00081 QELSNNLNSC FTKDYEEQNK ACVRTFHETP LQLEKIKNF
00121 FNETKNLLEK DWNIFTKNCN NSFAKCSSRD VVTKP
```

**Source:** CHO**Species:** Mouse

**Biological Activity:** ED<sub>50</sub> < 3 ng/ml, measured in a cell proliferation assay using Murine M-NFS-60 cells, corresponding to a specific activity of > 3.3×10<sup>5</sup> units/mg.

**Molecular Weight:** 35-44 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 murine Macrophage-Colony Stimulating Factor (M-CSF) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmM-CSF should be stable up to 1 week at 4°C or up to 2 months at -20°C.