

DATASHEET
Version 20181206**M-CSF, Rat****Cat. No.:** Z03010-25**Size:** 25.0 ug**Synonyms:** Macrophage Colony Stimulating Factor, MGI-IM, 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^[1]. M-CSF is mainly produced by monocytes, macrophages, fibroblasts, and endothelial cells^[2]. 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^{[1][3][4]}.

Amino Acid Sequence:

00001 EVSEHCSHMI GNHLLQILQQ LIDSQMETAC LIEYKFVDQE
00041 QLDDPVCYLK KAFVLVQVII EETMRFKDNT PNANATERLQ
00081 ELSMKLNSCF IKDYKEQNEA CVQTYKESPL RLLEKIKNFF
00121 NETKNFLEKD WNIFSKNCND SLAKCSSRDV VTKP

Source: CHO**Species:** Rat**Biological Activity:** ED₅₀ < 2.5 ng/ml, measured in a cell proliferation assay using Murine M-NFS-60 cells, corresponding to a specific activity of > 4×10⁵ units/mg.**Molecular Weight:** 32-40 kDa, observed by non-reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 µg/ml.**Purity:** > 95% as analyzed by SDS-PAGE.**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant Rat Macrophage-Colony Stimulating Factor (M-CSF) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rrM-CSF should be stable up to 1 week at 4°C or up to 2 months at -20°C.