

## Overview

|                            |  |
|----------------------------|--|
| <b>Synonyms</b>            | CSF1, CSF-1, MCSF  |
| <b>Description</b>         | <b>Human Macrophage-Colony Stimulating Factor (M-CSF)</b> , 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. |
| <b>Species</b>             | Human  |
| <b>Source</b>              | <i>CHO</i>   |
| <b>Biological Activity</b> | 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.  |
| <b>Sequence</b>            | EEVSEYCSHM IGSGHLQSLQ RLIDSQMETS CQITFEFVDQ<br>EQLKDPVCYL KKAFLLVQDI MEDTMRFRDN TPNAIAIVQL<br>QELSLRLKSC FTKDYEEHDK ACVRTFYETP LQLEKVKKNV<br>FNETKNLLDK DWNIFSKNCN NSFAECSSQG HERQSEGS   |

## Properties

|                                  |   |
|----------------------------------|---|
| <b>Measured Molecular Weight</b> | 32-40 kDa, observed by non-reducing SDS-PAGE.   |
| <b>Purity</b>                    | > 95% as analyzed by SDS-PAGE and HPLC.   |
| <b>Formulation</b>               | Lyophilized after extensive dialysis against PBS.   |
| <b>Reconstitution</b>            | Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml.  |
| <b>Endotoxin Level</b>           | <0.2 EU/µg, determined by LAL method.   |
| <b>Storage</b>                   | Lyophilized recombinant <b>human Macrophage-Colony Stimulating Factor (rhM-CSF)</b> 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. |

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