

Source

## Catalog Number: HZ-1192

## **Data Sheet**



Human cell expressed

Animal Component-Free

Tag-Free

**Endotoxin Free** 

**Product Description** Animal-free Recombinant Human M-CSF is expressed in human 293 cells and has an apparent molecular mass of 35 to 40 kDa due to glycosylation. M-CSF is a potent hematopoietic factor produced by a variety of cells including lymphocytes, monocytes, fibroblasts, endothelial cells, myoblasts, and osteoblasts. It is a key regulator of cellular proliferation, differentiation, and survivial of blood monocytes, tissue macrophages, and their progenitor cells. This cytokine is produced in a human cell expression system with serum-free, chemically defined media. **Alternative Names** CSF 1, CSF1, Lanimostim, M CSF, MCSF, M-CSF Human Embryonic Kidney cells (HEK293). HEK293-derived M-CSF protein

| Specifications    |   |  |  |  |  |
|-------------------|---|--|--|--|--|
| Test              | Method  | Specification  |  |  |  |
| Activity          | Dose-dependent stimulation of the proliferation of murine M-NFS-60 cells (Mouse myeloid leukemia indicator cell line) | 0.7-4.0 ng/mL  |  |  |  |
| Molecular<br>Mass | SDS-PAGE  | 19 and 23 kDa reduced, 35 and 40 kDa non-reduced,<br>homodimer, glycosylated |  |  |  |
| Purity            | SDS-PAGE  | >95%   |  |  |  |
| Endotoxin         | LAL   | <1 EU/µg   |  |  |  |

| Activity Data   | SDS-PAGE   |  |
|---|--|--|
| Recombinant M-CSF<br>4.0<br>3.5<br>5.5<br>1.0<br>0.5<br>0.001 0.01 0.1 1. 10. 100.<br>Concentration (ng/mL) | Recombinant human M-CSF<br>(Cat no: HZ-1192) stimulates<br>dose-dependent<br>proliferation of the murine<br>mouse myloid leukemia (M-<br>NFS-60) cell line. Cell<br>number was quantitatively<br>assessed by Prestoblue®<br>Cell Viability Reagent. M-<br>NFS-60 cells were treated<br>with increasing<br>concentrations of<br>recombinant M-CSF for 48<br>hours. The EC50 range is 0.7-<br>4.0 ng/mL. | kDa Reducing Non-Reducing   235 170   130 93   70 53   42 30   23 18   14 14   10 10 |

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| Preparation             |  |  |  |  |
|-------------------------|--|--|--|--|
| Shipping<br>Temperature | ambient temperature  |  |  |  |
| Formulation             | n 1x PBS, See Certificate of Analysis for details  |  |  |  |
| Reconstitution          | Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix. |  |  |  |

|                       | Product Form                       | Temperature Conditions | Storage Time<br>(From Date of Receipt) |  |
|-----------------------|------------------------------------|------------------------|--|--|
|                       | Lyophilized                        | -20°C to -80°C         | Until Expiry Date                      |  |
| Stability and Storage | Lyophilized                        | Room Temperature       | 2 weeks                                |  |
|                       | Reconstituted as per CofA          | -20°C to -80°C         | 6 months                               |  |
|                       | Reconstituted as per CofA          | 4°C                    | 1 week                                 |  |
|                       | Avoid repeated freeze-thaw cycles. |                        |  |  |

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