

Catalog Number: HZ-1192

Data Sheet





Animal Component-Free

Human cell expressed

Tag-Free

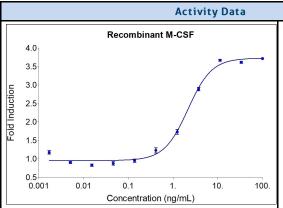
Endotoxin Free

Product Description

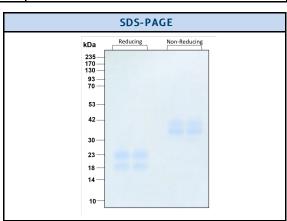
Animal-free Recombinant Human M-CSF is expressed in human 293 cells and has an apparent molecular mass of 35 to 40 kDa due to glycosylation. M-CSF is a potent hematopoietic factor produced by a variety of cells including lymphocytes, monocytes, fibroblasts, endothelial cells, myoblasts, and osteoblasts. 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 |
|--------------------|---|
| Source | Human Embryonic Kidney cells (HEK293). HEK293-derived M-CSF protein |
| Species Reactivity | human,mouse,rat |

| 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 EC50 | | | |
| Molecular Mass | SDS-PAGE | 19 and 23 kDa reduced, 35 and 40 kDa non-reduced, homodimer, glycosylated | | | |
| Purity | SDS-PAGE | >95% | | | |
| Endotoxin | LAL | <1 EU/µg | | | |



Recombinant human M-CSF (Cat no: HZ-1192) stimulates dose-dependent proliferation of the murine mouse myloid leukemia (M-NFS-60) cell line. Cell number was quantitatively assessed by Prestoblue® Cell Viability Reagent. M-NFS-60 cells were treated with increasing concentrations of recombinant M-CSF for 48 hours. The EC50 range is 0.7-4.0 ng/mL.



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| Preparation | | | | |
|-------------------------|---|--|--|--|
| Shipping Temperature | ambient temperature | | | |
| Formulation | nulation 1x PBS, See Certificate of Analysis for details | | | |
| Reconstitution | Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). | | | |

| Stability and Storage | Product Form | Temperature Conditions | Storage Time (From Date of Receipt) |
|-----------------------|---------------------------|------------------------------------|--|
| | Lyophilized | -20°C to -80°C | Until Expiry Date |
| | 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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