

Recombinant Human Macrophage Colony Stimulating Factor (M-CSF, CSF-1)

Publication Part Number MAN0004532

Rev. 1.00

| | | |
|---------------------------------------|---|---------|
| Catalog Number: | PHC9504 | PHC9501 |
| Quantity: | 10 µg | 100 µg |
| Lot Number: | See product label. | |
| Molecular Weight: | 38 kDa homodimer | |
| Purity: | ≥95% as determined by SDS-PAGE analysis. | |
| Biological Activity: | ED ₅₀ range ≤5 ng/mL, determined by the dose dependent proliferation of M-NSF60 cells. The optimal concentration for each specific application should be determined by an initial dose-response assay. | |
| Formulation: | Lyophilized, carrier free. | |
| Sterility: | Filtered prior to lyophilization through a 0.22 micron sterile filter. | |
| Endotoxin: | <0.1 ng/µg | |
| Production: | Recombinant human M-CSF is produced in HEK 293 cells and purified via sequential chromatography. | |
| Reconstitution Recommendation: | Lyophilized human M-CSF should be reconstituted in 20mM Tris-HCl, pH 8.0 to a concentration of 0.1–1.0 mg/mL. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein, such as 0.1% BSA and store in working aliquots at –20°C to –80°C. | |
| Suggested Working Dilutions: | The optimal concentration should be determined for each specific application. | |
| Storage: | Lyophilized human M-CSF should be stored at 2°C to 8°C, preferably desiccated. Store reconstituted human M-CSF at ≤ –20°C (not in a frost-free freezer). Keep freeze-thaw cycles to a minimum. | |
| Expiration Date: | Expires one year from date of receipt when stored as instructed. | |
| References: | <p>Chitu, V., E.R. Stanley (2006) Colony-stimulating factor-1 in immunity and inflammation. <i>Curr Opin Immunol</i> 18(1):39–48.</p> <p>Mroczko, B., M. Szmitkowski (2004) Hematopoietic cytokines as tumor markers. <i>Clin Chem Lab Med</i> 42(12): 1347–54.</p> <p>Sweet, M.J., D.A. Hume (2003) CSF-1 as a regulator of macrophage activation and immune responses. <i>Arch Immunol Ther Exp (Warsz)</i> 51(3):169–77.</p> | |

Explanation of Symbols

The symbols present on the product label are explained below:

| Symbol | Description |
|---|---|
|  | Catalog Number |
|  | Research Use Only |
|  | Use by |
|  | Manufacturer |
|  | Without, does not contain |
|  | Protect from light |
|  | Directs the user to consult instructions for use (IFU), accompanying the product. |

| Symbol | Description |
|---|--|
|  | Batch code |
|  | In vitro diagnostic medical device |
|  | Temperature limitation |
|  | European Community authorized representative |
|  | With, contains |
|  | Consult accompanying documents |

Limited Use Label License: Research Use Only

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For Research Use Only. Caution: Not for human or animal therapeutic or diagnostic use.

Manufactured under ISO 13485 Quality Standard

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288

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