

Recombinant Human Macrophage Colony Stimulating Factor (M-CSF)

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Catalog Number:	PHC2044	
Quantity:	10 µg	
Lot Number:	See product label.	
Molecular Weight:	36.8 kDa homodimer containing two subunits, each composed of 159 amino acid residues.	
Purity:	≥98% by SDS PAGE and HPLC analyses.	
Biological Activity:	$ED_{50} \le 1.0 \text{ ng/mL}$ (specific activity $\ge 1 \times 10^6$ units/mg). The biological activity was determined by measuring the dose dependent stimulation of proliferation of mouse M-NFS-60 cells. The optimal concentration should be determined for each specific application.	
Formulation:	Lyophilized from Sodium Phosphate, pH 8.0, with 75 mM NaCl. Filtered through a 0.2 micron filter prior to lyophilization.	
Endotoxin:	<0.1 ng/μg	
Production:	Produced in E. coli and purified by sequential chromatography.	
Reconstitution Recommendation:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in distilled water to a concentration of 0.1–0.5 mg/mL. <i>Do not vortex</i> . This solution can be stored at 2°C to 8°C for up to 1 week. 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:	The lyophilized protein is stable at room temperature for 1 month, but should be kept at –20°C for long term storage. Working aliquots stored with a carrier protein are stable for at least 12 months at –20°C to –80°C. Avoid repeated freeze/thaw cycles.	
Expiration Date:	See product label.	

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description
REF	Catalog Number
RUO	Research Use Only
Ω	Use by
***	Manufacturer
[-]	Without, does not contain
from Light	Protect from light
<u> </u>	Directs the user to consult instructions for use (IFU), accompanying the product.

Symbol	Description
LOT	Batch code
IVD	In vitro diagnostic medical device
1	Temperature limitation
EC REP	European Community authorized representative
[+]	With, contains
À	Consult accompanying documents

Limited Use Label License: Research Use Only

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 $\label{lem:continuous} \textbf{For Research Use Only. Caution: Not for human or animal the rapeutic or diagnostic use.}$

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