

Recombinant Human Monocyte Chemotactic and Activating Factor (MCAF)/(MCP-1)

Publication Part Number MAN0004466

Rev. 1.00

Catalog Number:	PHC1014	PHC1015	PHC1011
Quantity:	10 µg	25 µg	100 µg
Lot Number:	See product label.		
Molecular Weight:	8 kDa		
Purity:	≥98% pure by SDS-PAGE		
Biological Activity:	ED ₅₀ = <10 ng/mL. The biological activity was determined by measuring dose dependent chemotaxis with human THP-1 cells.		
Formulation:	Lyophilized, carrier-free.		
Sterility:	Filtered prior to lyophilization through a 0.22 micron sterile filter.		
Endotoxin:	<0.1 ng/µg		
Production:	Produced in <i>E. coli</i> 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 lyophilized human MCAF (MCP-1) in sterile, distilled water to 0.1–0.5 mg/mL. These stock solutions should be apportioned into working aliquots and stored at ≤ –20°C. Further dilution should be made in medium or buffered solution containing carrier protein, such as PBS with 0.1% BSA.		
Suggested Working Dilutions:	The optimal concentration should be determined for each specific application.		
Storage:	Lyophilized human MCAF (MCP-1) should be stored at 2°C to 8°C, preferably desiccated. Store reconstituted human MCAF (MCP-1) 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>Yoshimura, T., N. Yuhki, S.K. Moore, E. Appella, M.I. Lerman, and E.J. Leonard (1989) Human monocyte chemoattractant protein-1 (MCP-1). Full-length cDNA cloning, expression in mitogen-stimulated blood mononuclear leukocytes, and sequence similarity to mouse competence gene JE. <i>FEBS Lett</i> 244:487–93.</p> <p>Cross, A.K., V. Richardson, S.A. AH, I. Palmer, D.D. Taub, and R.C. Rees (1997) Migration responses of human monocytic cell lines to alpha- and beta-chemokines. <i>Cytokine</i> 9:521–8.</p> <p>Rollins, B.J., A. Walz, and M. Baggiolini (1991) Recombinant human MCP-1/JE induces chemotaxis, calcium flux, and the respiratory burst in human monocytes. <i>Blood</i> 78:1112–6.</p> <p>Rodriguez-Frade, J.M., A.J. Vila-Coro, A. Martin de Ana, J.P. Albar, C. Martinez, (Continued); and M. Mellado (1999) The chemokine monocyte chemoattractant protein-1 induces functional responses through dimerization of its receptor CCR2. <i>Proc. Nat'l. Acad. Sci. USA</i> 96:3628–33.</p> <p>Cambien, B. M. Pomeranz, M.A. Millet, B. Rossi, and A. Schmid-Alliana (2001) Signal transduction involved in MCP-1-mediated monocytic transendothelial migration. <i>Blood</i> 97:359–66.</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

The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product only to perform internal research for the sole benefit of the purchaser. No right to resell this product or any of its components is conveyed expressly, by implication, or by estoppel. This product is for internal research purposes only and is not for use in commercial applications of any kind, including, without limitation, quality control and commercial services such as reporting the results of purchaser's activities for a fee or other form of consideration. For information on obtaining additional rights, please contact outlicensing@lifetech.com or Out Licensing, Life Technologies, 5791 Van Allen Way, Carlsbad, California 92008.

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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