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Product Information

MONOCYTE CHEMOTACTIC PROTEIN 1 (MCP-1)

Rat, Recombinant
Expressed in *E. coli*

Cat. No. **M208**

Product Description

The mature form of MCP-1 has 4 cysteine residues.³ The first two cysteine residues are in an adjacent position C-C, which characterizes MCP1 as a member of the chemokine β subfamily. MCP-1 is a protein consisting of 125 amino acids with a molecular weight of 14100 daltons. MCP-1 will act on monocytes to initiate chemotaxis, inhibit nitric oxide synthase, and bind to the CC chemokine receptor 1 that also binds MIP-1 α , MIP-1 β and RANTES.

Product Information

Expressed in *E. coli*
Molecular Wt: 14.1 kDa
Purity: > 97% by SDS-PAGE
EC50: 100 ng/ml
Endotoxin: ≤ 0.1 ng/ μ g MCP-1

Reagents

It is provided as a lyophilized, solid with no additives..

Biological Activity

The biological activity of recombinant rat MCP-1 was measured by its monocyte chemotactic activity. The ED₅₀ for this effect is approximately 100 ng/ml.

Reconstitution

It is recommended that sterile PBS containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 1 μ g/ml.

Storage

Store desiccated at -20°C . After reconstitution and for continuous use, store at $2-8^{\circ}\text{C}$ for up to one month. For extended storage, solution may be frozen in working aliquots. Storage in "frost-free" freezers is not recommended. Repeated freezing and thawing is not recommended.

References:

1. Taub, D.D. et al. J. Clin. Invest. **95**, 1370-1376 (1995).
2. Li, Y.S. et al. Mol. Cell Biol. **126**, 61-68 (1993).
3. Rojas, A. et al. Biochem. Biophys. Res. Commun. **196**, 274-279 (1993).

Pcs/dmw 2/00

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