

Human MCP-1 research grade

Contents

- 1. Description
 - 1.1 Background information
 - 1.2 Applications

1. Description

Products Human MCP-1, research grade.

Recombinant human monocyte chemotactic

protein 1.

Content in µg	Order no.
5	130-093-961
20	130-093-962

Biological activity

The ED₅₀ is \leq 100 ng/mL corresponding to an

activity of $\geq 1 \times 10^4$ U/mg.

▲ Note: The ED₅₀ is determined by the ability to

chemoattract human monocytes.

Primary structure

Single, non-glycosylated polypeptide chain (76

amino acid residues).

Molecular mass 8.6 kDa.

Source Produced in *E. coli*.

Product format Lyophilized from a filtered (0.2 μm) buffer

solution.

Stabilizer None.

Purity >97% as determined by SDS-PAGE analysis.

Endotoxin level Low endotoxin (<1.0 EU/μg cytokine) as

determined by Limulus Amebocyte Lysate

(LAL) assay.

Storage Lyophilized Human MCP-1, research grade

should be stored at -20 °C. The expiration date is indicated on the vial label. Upon reconstitution aliquots should be stored at -20 °C or below. Avoid repeated freeze-thaw cycles.

Reconstitution It is recommended to reconstitute lyophilized

Human MCP-1, research grade with deionized sterile-filtered water to a final concentration of 0.1–1.0 mg/mL in a minimal volume of 50 μ L. Further dilutions should be prepared with 0.1% bovine serum albumin (BSA) or human serum albumin (HSA) in phosphate-buffered

saline.

also attracts T cells and NK cells to sites of inflammation. In addition to chemotaxis further pro-inflammatory activities, such as all activation, angiogenesis, and fibrosis are attributed to MCP-1.

1.2 Applications

Human MCP-1 can be used for a variety of applications, including:

- Chemotactic assays
- Inflammation studies.

Optimal concentration for a specific application should be determined by a dose-response experiment.

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1.1 Background information

MCP-1 belongs to the CC chemokine subfamily and is also known as CCL2. It signals predominantly through CCR2. MCP-1 is expressed by various cell types and besides monocyte and tissue macrophages

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