

## DESCRIPTION

**Source** *E. coli*-derived  
Gln24-Pro99  
Accession # P80075.2

**N-terminal Sequence Analysis** Gln24

**Predicted Molecular Mass** 9 kDa

## SPECIFICATIONS

**Activity** Measured by its ability to chemoattract BaF3 mouse pro-B cells transfected with human CCR5.  
The ED<sub>50</sub> for this effect is typically 0.01–0.06 µg/mL.

Measured by its ability to chemoattract THP-1 human acute monocytic leukemia cells.  
The ED<sub>50</sub> for this effect is typically 0.03–0.1 µg/mL.

**Endotoxin Level** <1.0 EU per 1 µg of the protein by the LAL method.

**Purity** >97%, by SDS-PAGE under reducing conditions and visualized by silver stain.

**Formulation** Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

## PREPARATION AND STORAGE

**Reconstitution** Reconstitute at 100 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

## BACKGROUND

MCP-2 and MCP-3 are two monocyte chemotactic proteins produced by human MG-63 osteosarcoma cells. Both MCP-2 and MCP-3 are members of the C-C family of chemokines and share 62% and 71% amino acid sequence identity, respectively, with MCP-1. MCP-3 also shares 58% amino acid identity with MCP-2.

Similarly to other C-C chemokines, all three MCP proteins are monocyte chemoattractants. In addition, the three MCPs can chemoattract activated NK cells as well as CD4<sup>+</sup> and CD8<sup>+</sup> T lymphocytes. All three cytokines have also been shown to attract eosinophils and induce histamine secretion from basophils.