

Monocyte Chemotactic Protein-2

Human, Recombinant (rHuMCP-2/CCL8)

Expressed in *E. coli*

Cat. No. CRP08114

Lot. No. (See product label)

PRODUCT INFORMATION

Description: MCP-2 and MCP-3 are two recently identified 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+ and CD8+ T lymphocytes. All three cytokines have also been shown to attract eosinophils and induce histamine secretion from basophils.

Amino-Acid Sequence: 76aa. non-glycosylated

M. W. : 8.9 kDa

Recombinant: Expressed in *E. coli*

Purity: >96% by SDS-PAGE and HPLC analyses.

Formulation: Lyophilized from a 0.2µm filtered concentrated (1.0mg/ml) solution in 20mM PB, pH 7.4, 100mM NaCl.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Endotoxin: Less than 1EU/µg of rHuMCP-2/CCL8 as determined by LAL method.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage: This lyophilized preparation is stable for several weeks at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

FOR RESEARCH USE ONLY

GENE INFORMATION

Gene Name: [CCL8](#)

synonyms: HC14;MCP2;MCP-2;SCYA8;SCYA10; C-C motif chemokine 8 precursor; Monocyte chemoattractant protein 2; Monocyte chemotactic protein2; Small-inducible cytokine A8; chemokine (C-C motif) ligand 8; small inducible cytokine A8; small inducible cytokine subfamily A (Cys-Cys), member 8 (monocyte chemotactic protein 2) ; CCL8_HUMAN.

mRNA Refseq: [NM_005623](#)

Protein Refseq: [NP_005614](#)

MIM: [602283](#)

UniProt ID: P80075

GeneID: [6355](#)

Chromosome Location: 17q11.2

Pathway: Cytokine-cytokine receptor interaction

Function: chemokine activity;heparin binding;signal transducer activity

REFERENCES

- 1.Van Coillie, et al. The human MCP-2 gene (SCYA8): cloning, sequence analysis, tissue expression, and assignment to the CC chemokine gene contig on chromosome 17q11.2. *Genomics*, 1997 40, 323-331.
- 2.Van Damme et al. Structural and functional identification of two human, tumor-derived monocyte chemotactic proteins (MCP-2 and MCP-3) belonging to the chemokine family. *J. Exp. Med.*, 1992, 176, 59-65.
- 3.Proost et al. Human monocyte chemotactic proteins-2 and -3: structural and functional comparison with MCP-1. *J Leukoc Biol.* 1996, 59, 67-74.