

## Cytokines

### Human Recombinant MCP-2 (CCL8)

Monocyte chemoattractant protein 2

Catalog # 78166  
78166.1

5 µg  
25 µg



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## Product Description

Monocyte chemoattractant protein (MCP) 2, or CCL8, belongs to the MCP subgroup of the CC family of chemokines, which includes MCP-1, MCP-2, MCP-3, MCP-4, and MCP-5. MCP-2 signals primarily through the CCR1 and CCR5 receptors to attract monocytes, activated NK cells, and CD4+ and CD8+ T cells (Romagnani). MCP-2 has also been shown to induce the release of histamine from basophils via the CCR2 receptor (Gangur & Oppenheim).

## Product Information

**Alternative Names:** HC14, Monocyte chemoattractant protein-2, SCYA8

**Accession Number:** P80075

**Amino Acid Sequence:** QPDSVSIPIT CCFNVINRKI PIQRLESYTR ITNIQCPKEA VIFKTKRGKE VCADPKERWW RDSMKHLDQI FQNLKP

**Predicted Molecular Mass:** 8.9 kDa

**Species:** Human

**Cross Reactivity:** Reported to be species-specific

**Formulation:** Lyophilized after dialysis against phosphate-buffered saline.

**Source:** E. coli

## Specifications

**Activity:** The specific activity is  $\geq 2.0 \times 10^3$  units/mg ( $EC_{50} \leq 0.5$  µg/mL) as determined by a FLIPR® assay using CCR5-transfected CHO cells.

**Purity:**  $\geq 95\%$

**Endotoxin Level:** Measured by kinetic Limulus amoebocyte lysate (LAL) analysis and is  $\leq 0.2$  EU/µg protein.

## Preparation and Storage

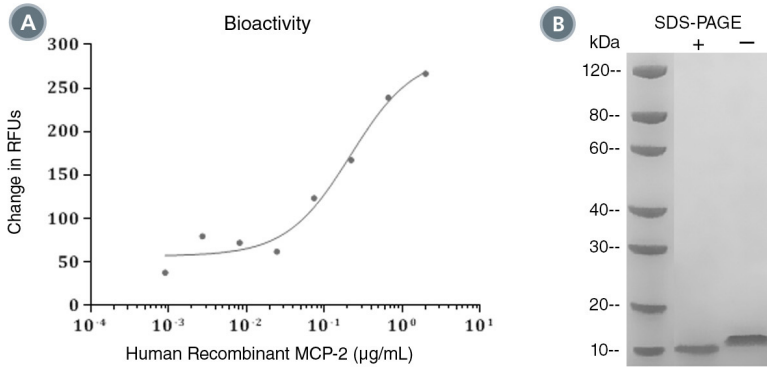
**Storage:** Store at -80°C.

**Stability:** Stable as supplied for 12 months from date of receipt.

**Preparation:** Centrifuge vial before opening. Reconstitute the product in sterile water to at least 0.1 mg/mL by pipetting the solution down the sides of the vial. Do not vortex.

OPTIONAL: After reconstitution, if product will not be used immediately, dilute with concentrated bovine serum albumin (BSA) to a final BSA concentration of 0.1%. The effect of storage of stock solution on product performance should be tested for each application. As a general guide, do not store at 2 - 8°C for more than 2 weeks or at -20°C to -80°C for more than 3 months. Avoid repeated freeze-thaw cycles.

## Data



(A) The biological activity of Human Recombinant MCP-2 (CCL8) was tested using CHO cells transfected with human CCR5. Calcium mobilization was measured using a fluorometric assay method. The EC<sub>50</sub> is defined as the effective concentration of CCL8 where calcium mobilization is at 50% of maximum. The EC<sub>50</sub> in the example above is less than 0.5 µg/mL.

(B) 2 µg of Human Recombinant MCP-2 (CCL8) was resolved with SDS-PAGE under reducing (+) and non-reducing (-) conditions and visualized by Coomassie Blue staining. Human Recombinant MCP-2 (CCL8) has a predicted molecular mass of 8.9 kDa.

## Related Products

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## References

- Gangur V & Oppenheim JJ. (2000) Are chemokines essential or secondary participants in allergic responses? *Ann Allergy Asthma Immunol* 84(6): 569–79.
- Romagnani S. (2002) Cytokines and chemoattractants in allergic inflammation. *Mol Immunol* 38(12–13): 881–5.

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