

**MCP-4/CCL13**  
**Catalog # PVGS1078****Specification**

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**MCP-4/CCL13 - Product Information**

Primary Accession [Q99616](#)  
**Species**  
Human

**Sequence**  
Gln24-Thr98

**Purity**  
> 96% as analyzed by SDS-PAGE<br>> 96% as analyzed by HPLC

**Endotoxin Level**  
< 1 EU/ µg of protein by LAL method

**Biological Activity**  
Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration of 10.0-100.0 ng/ml.

**Expression System**  
E. coli

**Theoretical Molecular Weight**  
8.6 kDa

Formulation **Lyophilized from a 0.2 µm filtered solution in 20 mM PB, pH 7.4, 130 mM NaCl.**

**Reconstitution**  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.

**Storage & Stability**  
Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

**MCP-4/CCL13 - Additional Information**

**Gene ID** 6357

**Other Names**  
C-C motif chemokine 13, CK-beta-10, Monocyte chemoattractant protein 4, Monocyte chemotactic protein 4, MCP-4, NCC-1, Small-inducible cytokine A13, C-C motif chemokine 13, long chain, C-C motif chemokine 13, medium chain, C-C motif chemokine 13, short chain, CCL13, MCP4, NCC1, SCYA13

**Target Background**

CCL13 is a chemoattractant for monocytes and eosinophils, and activates basophils. In addition, it has been reported to be chemotactic for CD4<sup>+</sup> and CD8<sup>+</sup> T cells, with an activity almost equivalent to that of MCP-3. The bioactivities of CCL13 is most likely mediated by the CC chemokine receptors CCR-2 and CCR-3, both of which have been shown to bind CCL13.

**MCP-4/CCL13 - Protein Information**

**Name** CCL13

**Synonyms** MCP4, NCC1, SCYA13

**Function**

Chemotactic factor that attracts monocytes, lymphocytes, basophils and eosinophils, but not neutrophils. Signals through CCR2B and CCR3 receptors. Plays a role in the accumulation of leukocytes at both sides of allergic and non-allergic inflammation. May be involved in the recruitment of monocytes into the arterial wall during the disease process of atherosclerosis. May play a role in the monocyte attraction in tissues chronically exposed to exogenous pathogens.

**Cellular Location**

Secreted.

**Tissue Location**

Widely expressed. Found in small intestine, thymus, colon, lung, trachea, stomach and lymph node. Low levels seen in the pulmonary artery smooth muscle cells

**MCP-4/CCL13 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**MCP-4/CCL13 - Images**