

Product Data Sheet

Cat RP-1023

Recombinant Human Monocyte Chemotactic Protein-4 (CCL13)

Size: 10 ug

Chemokine (C-C motif) ligand 13 (CCL13) is a small cytokine belonging to the CC chemokine family. Its gene is located on human chromosome 17 within a large cluster of other CC chemokines. CCL13 induces chemotaxis in monocytes, eosinophils, T lymphocytes, and basophils by binding cell surface G-protein linked chemokine receptors such as CCR2, CCR3 and CCR5. Activity of this chemokine has been implicated in allergic reactions such as asthma. CCL13 can be induced by the inflammatory cytokines interleukin-1 and TNF- α .

Usage: This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals

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Source: *Escherichia Coli*. Monocyte Chemotactic Protein-4 Human Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 74 amino acids and having a molecular mass of 8510 Dalton. The MCP-4 is purified by proprietary chromatographic techniques. The CCL13 protein was lyophilized from a concentrated (1mg/ml) sterile solution containing no additives.

Applications and Suggested Dilutions: Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. It is recommended to reconstitute the lyophilized Monocyte Chemotactic Protein-4 in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions. Users must optimize the appropriate concentration and conditions for each assay.

Storage and Stability: Lyophilized MCP4 although stable at room temperature for 3 weeks, should be stored desiccated below -18 $^{\circ}$ C. Upon reconstitution CCL13 should be stored at 4 $^{\circ}$ C between 2-7 days and for future use below -18 $^{\circ}$ C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4 $^{\circ}$ C for ~1 week or aliquots in suitable size and store at -20 $^{\circ}$ C for long term storage.
Please prevent freeze-thaw cycles.

Biological Activity: The specific activity as determined by the ability of MCP-4 to chemoattract human monocytes at 10-100 ng/ml.

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