9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

MCP 4 Human

Monocyte Chemotactic Protein-4 Human Recombinant (CCL13)
CHK0108

Product Overview

Name	MCP 4 Human
Description	
Monocyte Chemotactic Protein-4 Human Recombinant (CCL13)	
Accession (Primary)	Q99616
Synonyms	
Small inducible cytokine A13, CCL13, Monocyte chemotactic protein 4, MCP-4, Monocyte chemoattractant protein 4, CK-beta-10, NCC-1, chemokine (C-C motif) ligand 13, NCC1, CKb10, SCYL1, SCYA13, MGC17134.	
Introduction	
Chemokine (C-C motif) ligand 13 (CCL13 / MCP-4) is a small cytokine belonging to the CC chemokine family. The MCP-4 gene is located on human chromosome 17 within a large cluster of other CC chemokines. MCP-4 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 the MCP-4 chemokine has been implicated in allergic reactions such as asthma. MCP-4 can be induced by the inflammatory cytokines interleukin-1 and TNF-a.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a concentrated (1mg/ml) sterile solution in 20mM PB, pH 7.4, 130mM NaCl.	
Stability	
Lyophilized MCP-4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MCP-4 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 96.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
QPDALNVPSTCCFTFSSKKISLQRLKSYVITTSRCPQKAV IFRTKLGKEICADPKEKWVQNYMKHLGRKAHTLKT.	
Biological Activity	

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The specific activity as determined by the ability of MCP-4 to chemoattaract human monocytes at 10-100ng/ml, corresponding to a Specific Activity of 10,000-100,000 units/mg.

Solubility

It is recommended to reconstitute the lyophilized MCP-4 in sterile 18M-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

MCP 4 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q99616)