
Product Data Sheet

Product Name: MCP 4 Human
 Cat. No.: GP21160
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
Amino Acid Sequence	QPDALNVPSTCCFTFSSKKISLQRLKSYVITTSRCPQKAVIFRTKLGKEICADPKEKWVQNYMKHLGRKAHTLKT.		
Solubility	It is recommended to reconstitute the lyophilized MCP-4 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a concentrated (1mg/ml) sterile solution in 20mM PB, pH 7.4, 130mM NaCl.		

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- α .

Biological Activity

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

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.

Background

Monocyte Chemotactic Protein-4 Human Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 75 amino acids and having a molecular mass of 8.6 kDa. The MCP-4 is purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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