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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Monocyte Chemotactic Protein-4 (CCL13), human recombinant (rHuMCP-4)

Catalog No: 94859
Lot No: XXXXX
Source: *E. coli*
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

Background

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 .

Description

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. MCP-4 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from a concentrated (1 mg/ml) sterile solution in 20 mM PB, pH 7.4, 130 mM NaCl.

Solubility

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

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

QPDALNVPST CCFTFSSKKI SLQRLKSYVI TTSRCPQKAV IFRTKLGKEI CADPKEKWVQ NYMKHLGRKA HTLKT

Activity

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



Usage

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