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# MCP 4 Human

**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. The MCP-4 is purified by proprietary chromatographic techniques.

**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.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

### Amino Acid Sequence:

QPDALNVPSTCCFTFSSKKISLQRLKSYVITTSRCPQKAVIFRTKLGKEICADPKEKWVQNYMKHL GRKAHTLKT.

**Purity:**Greater than 96.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

## 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.

#### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

#### Solubility:

It is recommended to reconstitute the lyophilized MCP-4 in sterile 18M-cm H2O not less than 100

#### 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.

#### **Biological Activity:**

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.

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