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MIP 4 Human

Macrophage Inflammatory Protein-4 Human Recombinant (CCL18)
CHK0136

Product Overview

Name	MIP 4 Human

Description

Macrophage Inflammatory Protein-4 Human Recombinant (CCL18)

Accession (Primary)	P55774

Synonyms

Small inducible cytokine A18, CCL18, Macrophage inflammatory protein 4, MIP-4, Pulmonary and activation-regulated chemokine, CC chemokine PARC, Alternative macrophage activation-associated CC chemokine 1, AMAC-1, Dendritic cell chemokine 1, DC-CK1, chemokine (C-C motif) ligand 18, CKb7, PARC, AMAC1, DCCK1, SCYA18.

Introduction

Chemokine (C-C motif) ligand 18 (CCL18 / MIP-4) is a small cytokine belonging to the CC chemokine family that was previously called PARC (pulmonary and activation-regulated chemokine). MIP-4 is approximately 60% identical in amino acid sequence to CCL3. MIP-4 is expressed at high levels in lung and at lower levels in certain lymphoid tissues, such as the lymph nodes, and is chemotactic for activated T cells and non activated lymphocytes. The gene for human CCL18 contains three exons and is located on chromosome 17.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

MIP-4 protein is lyophilized from a 0.2 μm filtered concentrated (1.0mg/ml) solution in 20mM PB, pH 7.4, 100mM NaCl.

Stability

Lyophilized MIP-4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MIP-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 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

The sequence of the first five N-terminal amino acids of MIP-4 was determined and found to be Ala-Gln-Val-Gly-Thr.

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Biological Activity

The Activity MIP-4 is calculated by the ability to chemoattract Human T lymphocytes at 1-10ng/ml corresponding to a Specific Activity of 100,000-1,000,000IU/mg.

Solubility

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

Precautions

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

Target Information: (P55774)