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MIP 5 Human

Macrophage Inflammatory Protein-5 Human Recombinant (CCL15)
CHK0139

Product Overview

Name	MIP 5 Human

Description

Macrophage Inflammatory Protein-5 Human Recombinant (CCL15)

Accession (Primary)	Q16663

Synonyms

Small inducible cytokine A15 precursor, CCL15, Macrophage inflammatory protein 5, MIP-5, MIP5, Chemokine CC-2, HCC-2, NCC-3, MIP- 1 delta, Leukotactin-1, LKN-1, Mrp-2b, C-C motif chemokine 15.

Introduction

CCL15, a new human CC chemokine, was isolated from a human fetal spleen cDNA library. CCL15 cDNA encodes a predicted 113 amino acid (aa) protein containing a putative signal peptide of 21 amino acids that is cleaved to generate a 92 aa residue mature protein. Within the CC family members, human CCL15 shares 45%, 44%, 35%, and 30% aa homology with mouse C10, human MPIF-1, human HCC-1, and mouse MIP-1?, respectively. The gene for MIP-5 is found on chromosome 17 where the genes for most of the human CC chemokines are located. Human CCL15 is expressed in T and B lymphocytes, NK cells, monocytes and monocyte-derived dendritic cells. Human MIP-5 is chemotactic for T cells and monocytes and has been shown to induce calcium flux in human CCR-1-transfected cells.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

MIP5 was lyophilized from a concentrated (1mg/ml) solution containing 20mM PBS pH-7.4 and 100mM NaCl.

Stability

Lyophilized MIP-5 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CCL15 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.

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Amino acid sequence

QFINDAETELMMSKLPLENPVVLNSFHFAADCCTSYISQSIPCSLMKSYFETSSECSKP GVIFLTKKGRQVCAKPSGPGVQDCMKKLKPYSI.

Biological Activity

Determined by its ability to chemoattract human T-lymphocytes using a concentration range of 1-10 ng/ml corresponding to a Specific Activity of 100,000-1,000,000IU/mg.

Solubility

It is recommended to reconstitute the lyophilized MIP5 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

MIP 5 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q16663)