



## User Manual

**MIP-5/CCL15 (MIP-5/CCL15) (Human)**

**Cat. No. HECCP-15011**

**Description:**

CCL15, a new human CC chemokine, was isolated from a human fetal spleen cDNA library. CCL15 cDNA encodes a predicted 113 amino acid (a.a.) protein containing a putative signal peptide of 21 (a.a.) that is cleaved to generate a 92 a.a. residue mature protein. Within the CC family members, human CCL15 shares 45%, 44%, 35%, and 30% a.a. homology with mouse C10, human MIP-1, human HCC-1, and mouse MIP-1 $\gamma$ , 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*

**Unit:**

5  $\mu$ g

**Reconstitution:**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20°C. Further dilutions should be made in appropriate buffered solutions.

**Formulation:**

Lyophilized from a 0.2  $\mu$ m filtered concentrated solution in 20 mM PB, pH 7.4, 100 mM NaCl.

**Storage:**

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

**Molecular Weight:**

Approximately 10.1 kDa, a single non-glycosylated polypeptide chain containing 92 amino acids.

**Endotoxin:**

Less than 1 EU/μg of MIP-5/CCL15 as determined by LAL method.

**Usage:**

This material is offered by Cyagen Biosciences for research, laboratory or further evaluation purposes. FOR RESEARCH USE ONLY. NOT INTENDED FOR ANY ANIMAL OR HUMAN THERAP EUTIC OR DIAGNOSTIC USE.

**Biological Activity:**

The biologically active determined by a chemotaxis bioassay using human T-lymphocytes is in a concentration range of 1.0-10 ng/mL.

**Physical Appearance:**

Sterile filtered white lyophilized (freeze-dried) powder.

**AA Sequence:**

QFINDAETEL MMSKLPLENP VVLNSFHFAA DCCTSYISQS IPCSLMKSYF  
ETSSECSKPG VIFLTKKGRQ VCAKPSGPGV QDCMKKLKPY SI

**Purity:**

> 97% by SDS-PAGE and HPLC analyses.

Material Safety Data Sheets (MSDSs) are available upon request.

The Certificate of Analysis (COA), which provides detailed quality control information for each product, is also available at the Cyagen website.

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