

## C-C motif chemokine 15 (CCL15), Human

**Cat.no.** PK0242

**Product size:** 2ug 25ug 1mg

**Source:** E. coli

**Species:** Human

**Biological Activity:** ED50 < 2 µg/mL, measured by the FLIPR assay using CHO cells transfected with human CCR1, the receptor of human CCL15, corresponding to a specific activity of > 500 units/mg.

**Molecular Weight:** 10.2 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O at 100 µg/ml.

**Purity:** > 95% as analyzed by SDS-PAGE.

**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.

**Storage:** Lyophilized recombinant human CCL15 (rhCCL15) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhCCL15 remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.

**Description:** Macrophage Inflammatory Protein-5 (MIP-5/CCL15) is a chemokine originally identified in the human hemofiltrate, thus it is also named Hemofiltrate CC Chemokine-2 (HCC-2). MIP-5 belongs to the CCL chemokine family, and its receptors are G-protein coupled receptors CCR1 and CCR3, with CCR1 being the major one. MIP-5 is mainly expressed in heart and skeletal muscle, and CCR1 is expressed on Th1 and Th2 cells in human cord blood lymphocytes. In vivo, MIP-5 promotes the accumulation of immature myeloid cells and the expansion of metastatic foci in the liver. MIP-5 contributes to severe asthma, sarcoidosis, and atherosclerosis; however, MIP-5 can also inhibit stem cell proliferation, implicating its therapeutic potential as an alternative to high dose chemotherapy. Recombinant human CCL15 (rhCCL15) produced in E.coli is a single non-glycosylated polypeptide chain containing 92 amino acids.

**Amino Acid Sequence:**

00001 QFTNDAETEL MMSKLPLENP VVLNSFHFAA DCCTSYISQS

00041 IPCSLMKSYF ETSSECSKPG VIFLTKKGRQ VCAKPSGPGV

00081 QDCMKKLPY SI

**Synonyms:** C-C motif chemokine 15, Chemokine CC-2, HCC-2, HCC2, Leukotactin-1, Leukotactin 1, Leukotactin1, LKN-1, MIP-1 delta, Macrophage inflammatory protein 5, MIP-5, Mrp-2b, Mrp2b, NCC-3, Small-inducible cytokine A15, CCL15, MIP5, NCC3, SCYA15

**Note:** For research use only, not for use in diagnostic procedure.