

## Recombinant Human Macrophage Inflammatory Protein-5/CCL15

### Information

<b>Gene ID</b>	6359
<b>Accession #</b>	Q16663
<b>Alternate Names</b>	C-C Motif Chemokine 15, LKN-1, Mrp-2b, NCC-3, Small-inducible Cytokine A15
<b>Source</b>	Escherichia coli.
<b>M.Wt</b>	Approximately 10.2 kDa, a single non-glycosylated polypeptide chain containing 92 amino acids.
<b>AA Sequence</b>	QFINDAETEL MMSKLPLENP VVLNSFHFAA DCCTSYISQS IPCSLMKSYF ETSSECSKPG VIFLTKKGRQ VCAKPSGPGV QDCMKKLKPY SI
<b>Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 100 mM NaCl.
<b>Reconstitution</b>	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.
<b>Biological Activity</b>	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human T-lymphocytes is in a concentration range of 1.0-10 ng/ml.
<b>Shipping Condition</b>	Gel pack.
<b>Handling</b>	Centrifuge the vial prior to opening.
<b>Usage</b>	For Research Use Only! Not to be used in humans.

### Components and Storage

Components	5µg	100µg	500µg
Recombinant Human Macrophage Inflammatory Protein-5/CCL15	5µg	100µg	500µg

Use a manual defrost freezer and avoid repeated freeze-thaw cycles

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

## Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuMIP-5/CCL15 as determined by LAL method.

## Description

Human CCL15 is belonging to the CC chemokine family and shares 35 % amino acid homology with human HCC1 (CCL14). CCL15 is most abundant in heart, skeletal muscle and adrenal gland, and low expressed in liver, small intestine, colon, and in certain leukocytes and macrophages of the lung. It is chemotactic for neutrophils, monocytes, and lymphocytes and elicits its effects by binding to cell surface chemokine receptors like CCR1 and CCR3. CCL15 has several cleaved chains. All of them are more potent chemoattractants than CCL15.

## Reference

1. Youn BS, Zhang SM, Broxmeyer HE, et al. 1998. Blood. 91:3118-26
2. Berahovich RD, Miao Z, Wang Y, et al. 2005. J Immunol. 174:7341-51
3. Pardigol A, Forssmann U, Zucht HD, et al. 1998. Proc Natl Acad Sci U S A. 95:6308-13
4. Youn BS, Zhang SM, Lee EK, et al. 1997. J Immunol. 159:5201-5
5. Coulin F, Power CA, Alouani S, et al. 1997. Eur J Biochem. 248:507-15.

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