

## 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 IPCSLMKSYP ETSSECSKPG VIFLTKKGRQ VCAKPSGPGV QDCMKKLPY 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/ $\mu$ g of rHuMIP-5/CCL15 as determined by LAL method.

## Description

人CCL15属于CC趋化因子家族，与人CCL14有35%的氨基酸同源性。CCL15在心脏、骨骼肌和肾上腺中含量最高，在肝脏、小肠、结肠和肺中某些白细胞和巨噬细胞中低表达。它对中性粒细胞、单核细胞和淋巴细胞具有趋化作用，并通过与细胞表面趋化因子受体CCR1和CCR3结合而发挥作用。CCL15有几条裂解链。它们都是比CCL15更强的化学引诱剂。

## 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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