

## Recombinant Human Monocyte Chemotactic Protein-3/CCL7

### Information

<b>Gene ID</b>	6354
<b>Accession #</b>	P80098
<b>Alternate Names</b>	NC28, Small-inducible cytokine A7
<b>Source</b>	Escherichia coli.
<b>M.Wt</b>	Approximately 9.0 kDa, a single, non-glycosylated polypeptide chain containing 76 amino acids.
<b>AA Sequence</b>	QPVGINTSTT CCYRFINKKI PKQRLESYRR TTSSHCPCREA VIFKTKLDKE ICADPTQKWV QDFMKHLDDKK TQTPKL
<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, 150 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 biologically active determined by a chemotaxis bioassay using human monocytes is in a concentration range of 10-100 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	10µg	100µg	500µg
Recombinant Human Monocyte Chemotactic Protein-3/CCL7	10µg	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 rHuMCP-3/CCL7 as determined by LAL method.

## Description

Human CCL7, also known as monocyte chemotactic protein 3 (MCP-3), is belonging to the CC chemokine family. MCP-3 has two homogeneous MCP-1 (CCL2) and MCP-2 (CCL8). These three MCPs were found by IL-1-beta triggered human MG-63 osteosarcoma cells. CCL7 shares 71 % and 58 % a.a. sequence identity with MCP-1 and MCP-2, respectively. CCL7 has chemotactic function for monocytes and eosinophils, but not for neutrophils. In addition, it can also chemoattract activated NK cells.

## Reference

1. Opdenakker G, Fiten P, Nys G, et al. 1994. Genomics. 21:403-8
2. Opdenakker G, Froyen G, Fiten P, et al. 1993. Biochem Biophys Res Commun. 191:535-42.

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