

## Recombinant Rat Monocyte Chemoattractant Protein 3/CCL7

### Information

<b>Gene ID</b>	287561
<b>Accession #</b>	Q9QXY8
<b>Alternate Names</b>	Protein FIC, Small-inducible Cytokine A7, Interocrine/chemokine MARC
<b>Source</b>	Escherichia coli.
<b>M.Wt</b>	Approximately 8.5 kDa, a single non-glycosylated polypeptide chain containing 74 amino acids.
<b>AA Sequence</b>	QPDGTNSSTC CYVKKQKIPK RNLKSYRKIT SSRCPWEAVI FKTKKGMEVC AEAHQKWVEE AIAYLDMKTS TPKP
<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 2 × PBS, pH 7.4.
<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 Rat Monocyte Chemoattractant Protein 3/CCL7	10µg	100µg	500µg

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- 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	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rRtMCP-3/CCL7 as determined by LAL method.

## Description

Rat CCL7, belonging to the CC chemokine family, is also named as MCP-3, because the sequence comparison suggested that the rat CCL7 is a homologue of the human MCP-3 and is postulated the rat MCP-3. The MCP-3 protein family signals through CCR2 expect MCP-1 and possess cross-reacts across species. CCL7/MCP3 has chemotactic functions for monocytes and eosinophils, but not for neutrophils. Additionally, it can activated NK cells as well as CD4+ and CD8+ T lymphocytes. CCL7 was found to interact with MMP2.

## Reference

1. Kulmburg PA, Huber NE, Scheer BJ, et al. 1992. J Exp Med. 176:1773-8
2. Thirion S, Nys G, Fiten P, et al. 1994. Biochem Biophys Res Commun. 201:493-9.

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