

Recombinant Murine Monocyte Chemotactic Protein-3/CCL7

Information

Gene ID	20306
Accession #	Q03366
Alternate Names	Protein FIC, Small-inducible Cytokine A7, Interocrine/chemokine MARC
Source	Escherichia coli.
M.Wt	Approximately 8.5 kDa, a single, non-glycosylated polypeptide chain containing 74 amino acids.
AA Sequence	QPDGPNASTC CYVKKQKIPK RNLKSYRRIT SSRCPWEAVI FKTKKGMEVC AEAHQKWVEE AIAYLDMKTP TPKP
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	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
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 2× PBS, pH 7.4.
Reconstitution	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.
Biological Activity	Fully biologically active when compared to standard. The biologically active determined by a chemotaxis bioassay using human monocytes is in a concentration range of 100-300 ng/ml.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10µg	100µg	500µg
Recombinant Murine Monocyte Chemotactic 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 rMuMCP-3/CCL7 as determined by LAL method.

Description

Murine CCL7, also known as MARC, is belonging to the CC chemokine family. It is encoded by the gene CCL7 and was isolated from a mouse mast cell line after Fc epsilon RI triggering by IgE plus antigen. Sequence comparisons suggest that MARC may be the mouse homologue of the human MCP-3 gene. Similar to the human system, MARC/FIC is postulated the murine MCP-3. The MCP-3 protein family signals through CCR2 expect MCP-1 and possess cross-reacts across species. CCL7/MCP3 has chemotactic function for monocytes and eosinophils, but not for neutrophils.

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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