

# Recombinant Murine Monocyte Chemotactic Protein-3/CCL7 (rMuMCP-3/CCL7)

## ChemWhat Technical Data Sheet (TDS)

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<b>Catalog Number:</b>	224-07
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 8.5 kDa, a single, non-glycosylated polypeptide chain containing 74 amino acids.
<b>Quantity:</b>	2µg /10µg /1000µg
<b>AA Sequence:</b>	QPDGPNASTC CYVKKQKIPK RNLKSYRRIT SSRCPWEAVI FKTKKGMEVC AEAHQKWVEE AIAYLDMKTP TPKP
<b>Purity:</b>	> 95 % by SDS-PAGE and HPLC analyses.
<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 100-300 ng/ml.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 2× PBS, pH 7.4.
<b>Endotoxin:</b>	Less than 1 EU/µg of rMuMCP-3/CCL7 as determined by LAL method.
<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>Shipping:</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li><li>● 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li></ul>
<b>Usage:</b>	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

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### *Murine Monocyte Chemotactic Protein-3/CCL7*

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 except MCP-1 and possess cross-reacts across species. CCL7/MCP3 has chemotactic function for monocytes and eosinophils, but not for neutrophils.