

Recombinant Rat Monocyte Chemotactic Protein-3/CCL7 (rRtMCP-3/CCL7)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	244-07
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 8.5 kDa, a single non-glycosylated polypeptide chain containing 74 amino acids.
Quantity:	2µg/10µg/1000µg
AA Sequence:	QPDGTNSSTC CYVKKQKIPK RNLKSYRKIT SSRCPWEAVI FKTKKGMEVC AEAHQKWVEE AIAYLDMKTS TPKP
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
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 10-100 ng/ml.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4.
Endotoxin:	Less than 1 EU/µg of rRtMCP-3/CCL7 as determined by LAL method.
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.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 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.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Rat Monocyte Chemotactic Protein-3/CCL7

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.