Recombinant Murine Monocyte Chemotactic Protein-3/CCL7

#R00428

Size: 10 μg/100 μg/500 μg

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.

Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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.

AA Sequence

QPDGPNASTCCYVKKQKIPKRNLKSYRRITSSRCPW EAVIFKTKKGMEVCAEAHQKWVEEAIAYLDMKTPTPK P

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.

Product Specification

Synonyms	Protein FIC, Small-inducible Cytokine A7, Intercrine/chemokine MARC
Accession	Q03366
GeneID	20306
Species	Murine
Source	Escherichia coli.
Molecular Weight	Approximately 8.5 kDa, a single, non-glycosylated polypeptide chain containing 74 amino acids.
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 100-300

	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 rMuMCP-3/CCL7 as determined by LAL method.