

Recombinant Rat Monocyte Chemoattractant Protein 3/CCL7

#R00459

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

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.

AA Sequence

QPDGTNSSTCCYVKKQKIPKRNLKSYRKITSSRCPW
EAVIFKTKKGMEVCAEAHQKWVEEAIAYLDMKTSTPK
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	Q9QXY8
GeneID	287561
Species	Rat
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 10-100

	ng/ml.
Physical	Sterile Filtered White lyophilized
Appearance	(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.