

Recombinant Human Monocyte Chemotactic Protein-3/CCL7

#R00381

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

Human CCL7, also known as monocyte chemotactic protein 3 (MCP-3), is belonging to the CC chemokine family. MCP-3 has two homogeneous MCP-1 (CCL2) and MCP-2 (CCL8). These three MCPs were found by IL-1-beta triggered human MG-63 osteosarcoma cells. CCL7 shares 71 % and 58 % a.a. sequence identity with MCP-1 and MCP-2, respectively. CCL7 has chemotactic function for monocytes and eosinophils, but not for neutrophils. In addition, it can also chemoattract activated NK cells.

AA Sequence

QPVGINTSTTCCYRFINKKIPKQRLESYRRTTSSHCP
REAVIFKTKLDKEICADPTQKWVQDFMKHLDKKTQTP
KL

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	NC28, Small-inducible cytokine A7
Accession	P80098
GeneID	6354
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 9.0 kDa, a single, non-glycosylated polypeptide chain containing 76 amino acids.
Purity	> 97 % 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 20 mM PB, pH 7.4, 150 mM NaCl.
Endotoxin	Less than 1 EU/μg of rHuMCP-3/CCL7 as determined by LAL method.