

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Human Monocyte Chemotactic Protein-3/CCL7 (rHuMCP-3/CCL7)

Catalog Number: PR1100

Source: Escherichia coli.

Quantity: 2µg/10µg/1.0mg

Description

MCP2 and CCL7 are two monocyte chemotactic proteins produced by human MG63 osteosarcoma cells. Both MCP2 and CCL7 are members of the CC family of chemokines and share 62% and 71% amino acid sequence identity, respectively, with MCP1. CCL7 also shares 58% amino acid identity with MCP2.

Similarly to other CC chemokines, all three MCP proteins are monocyte chemoattractants. In addition, the three MCPs can chemoattract activated NK cells as well as CD4+ and CD8+ T lymphocytes. All three cytokines have also been shown to attract eosinophils and induce histamine secretion from basophils.

Molecular Weight:

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. Determined by its ability to chemoattract human peripheral blood monocytes using a concentration range of 10.0-100.0 ng/ml, corresponding to a Specific Activity of $\square 1 \times 10^4$ IU/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in 20mM PB, pH 7.4, 150mM NaCl.

AA Sequence:

Q P V G I N T S T T C C Y R F I N K K I P K Q R L E S Y
R R T T S S H C P R E A V I F K T K L D K E I C A D P T
Q K W V Q D F M K H L D K K T Q T P K L

Endotoxin:

Less than 1EU/mg of rHuMCP-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.

Storage:

This lyophilized preparation is stable for several weeks at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

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