

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Murine MCP-2/CCL8 (rMuMCP-2/CCL8)

Catalog Number: PR2030

Source: Escherichia coli.

Quantity: 5µg/20µg/1.0mg

Description

MCP-2 and MCP-3 are two recently identified monocyte chemotactic proteins produced by human MG-63 osteosarcoma cells. Both MCP-2 and MCP-3 are members of the C-C family of chemokines and share 62% and 71% amino acid sequence identity, respectively, with MCP-1. MCP-3 also shares 58% amino acid identity with MCP-2.

Similarly to other C-C 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:

8.5 kDa, a single, non-glycosylated polypeptide chain containing 74 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 1×10^4 IU/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

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

AA Sequence:

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

Endotoxin:

Less than 1EU/µg of rMuMCP-2/CCL8 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 $<-20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable for several weeks at $2-8^{\circ}\text{C}$, 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 $2-8^{\circ}\text{C}$. 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

MADE IN CHINA

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