



Technical Data Sheet

Recombinant Human MCP-2 (rHu MCP-2/CCL8)

Human MCP-2/CCL8

MCP-2 and MCP-3 are two monocyte chemotactic proteins produced by human MG-63 osteosarcoma cells. Both MCP-2 and MCP-3 are members of the CC 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 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.

Catalog Number:	RC315-19
Source:	<i>Escherichia coli</i> .
Molecular Weight:	8.9 kDa, a single non-glycosylated polypeptide chain containing 76 amino acids.
Quantity:	2ug/10ug/1mg
Purity:	>96% by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. Measured by its ability to chemoattract THP-1 human acute monocytic leukemia cells. The ED ₅₀ for this effect is typically 0.03-0.1µg/mL.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2µm filtered concentrated (1.0mg/ml) solution in 20mM PB, pH 7.4, 100mM NaCl.
AA Sequence:	QPDSVSIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADP KERWVRDSMKHLDQIFQNLKP
Endotoxin:	Less than 1EU/µg of rHuMCP-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°C. Further dilutions should be made in appropriate buffered solutions.
Storage:	This lyophilized preparation is stable 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



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Usage:

freeze/thaw cycles.

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