

RECOMBINANT HUMAN MONOCYTE CHEMOTACTIC PROTEIN-2 (hMCP-2/CCL8)

Catalog # 02665	10 mg per vial
Catalog # 02865	50 mg per vial

PRODUCT DESCRIPTION:

Monocyte chemotactic protein-2 (MCP-2) is a member of the β (CC) family of chemokines. It is produced by fibroblasts, peripheral blood mononuclear cells, luteal cells, and MG63 osteosarcoma cells. MCP-2 is a chemoattractant for monocytes, NK cells, T cells, eosinophils and basophils. Human MCP-2 cDNA encodes a 77 amino acid residue protein and it has an apparent molecular mass of 9 kDa.

SOURCE:

A DNA sequence encoding the mature human MCP-2 protein was expressed in *E. coli*.

PURITY:

Greater than 97%, as determined by SDS-PAGE and visualized by silver stain. Endotoxin level less than 0.1 ng per 1 μ g of the cytokine as determined by the LAL method.

FORMULATION:

Lyophilized from a sterile solution in PBS containing 50 μ g of bovine serum albumin per 1 μ g of cytokine.

RECONSTITUTION:

It is recommended that sterile PBS containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 10 μ g/mL of the cytokine.

STABILITY/STORAGE:

Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted human MCP-2/CCL8 can be stored under sterile conditions at 2° to 4°C for one month or at -20°C to -70°C for three months without detectable loss of activity.

Avoid repeated freeze-thaw cycles.

ACTIVITY:

Activity was determined by ability to chemoattract mouse BaF/3 cells transfected with human CCR5 and the ability to chemoattract THP-1 cells. The ED₅₀ for these effects were typically 0.03 - 0.12 μ g/mL and 0.03 - 0.1 μ g/mL, respectively.

**THIS REAGENT IS FOR RESEARCH USE ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**