10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MCP-2/CCL8

Catalog # PVGS1131

Product Information

Primary Accession	Q9Z121
Species	Mouse
Sequence	Gly24-Pro97
Purity	> 97% as analyzed by SDS-PAGE > 97% as analyzed by HPLC
Endotoxin Level	
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood monocytes is in a concentration range of 10.0-100.0 ng/ml.
Expression System	E. coli
Theoretical Molecular Weight	8.5 kDa
Formulation	Lyophilized from a 0.2 μm filtered solution in 20 mM PB, pH 7.4, 150 mM NaCl.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Additional Information

Gene ID	20307
Other Names	C-C motif chemokine 8, Monocyte chemoattractant protein 2, Monocyte chemotactic protein 2, MCP-2, Small-inducible cytokine A8, Ccl8, Mcp2, Scya8
Target Background	MCP-2 is a member of the chemokines, a group of 70-80 residue proteins sharing substantial sequence similarity. Within the chemokines, MCP-2 belongs to the CC subfamily, and is a member of the Monocyte Chemoattractant Proteins (MCPs), which includes MCP-1, MCP-2, MCP-3, MCP-4, and MCP-5. MCP-2 shares 60% homology with MCP-1, and both proteins can undergo reversible dimerization. The main receptors of MCP-2 are G-protein coupled receptors CCR1 and CCR5. MCP-2 is a potential target in HIV-1 infected human glial cells as it may play a role in the modulation of viral spread in the brain. Recently, researchers found that mouse MCP-2 is

expressed in the skin as a novel agonist of CCR8 and plays a role in eosinophilic inflammation.

Protein Information

Name	Ccl8
Synonyms	Mcp2, Scya8
Function	Chemotactic factor that attracts monocytes. This protein can bind heparin (By similarity).
Cellular Location	Secreted.