

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 Im 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.