Rev03
Update: Dec,14,2021

DATASHEET

MCP-2/CCL8, Human

Cat. No.: Z03232

Product Introduction

Species	Human
Protein Construction	**MCP-2 (Gln24-Pro99) Accession # P80075**
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED_{50} < 0.5 μg/ml, measured by the FLIPR assay using CHO cells transfected with human CCR5, the receptor of human CCL8, corresponding to a specific activity of > 2.0×10^3 units/mg.
Expression System	E. coli
Apparent Molecular Weight	~8.9 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
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 ddH_2O up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Background

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.

Synonyms : Monocyte Chemoattractant Protein-2; HC14; SCYA8; MCP2; CCL-8

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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