Human MCP 2 Recombinant Protein

RPPB1191

Product Information

Product SKU:
RPPB1191

Accession:
P80075

Host:
Escherichia Coli.

Protein Information

Protein description:
Monocyte Chemotactic Protein-2 Human Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 76 amino acids and having a molecular mass of 8904 Dalton. The MCP2 is purified by proprietary chromatographic techniques.

Appearance:
Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:
Small inducible cytokine A8, CCL8, Monocyte chemotactic protein 2, MCP-2, Monocyte chemoattractant protein 2, HC14, chemokine (C-C motif) ligand 8, MCP2, SCYA8, SCYA10.

Formulation:
The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing no additives.

Purity:
Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Solubility:
It is recommended to reconstitute the lyophilized Monocyte Chemotactic Protein-2in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:
Lyophilized MCP2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CCL8should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Amino Acid Sequence:
The sequence of the first five N-terminal amino acids was determined and was found to be Gln-Pro-Asp-Ser-Val.

Biological Activity:
The biological activity was determined by measuring the dose dependent mobilization of intracellular calcium (calcium flux) with human THP-1 cells. Significant calcium mobilization is observed with 500ng/mL of recombinant human MCP-2. Human MCP-2 also induces dose dependent chemotaxis of human THP-1 cells with an ED50=30-100 ng/mL corresponding to a Specific Activity of 10,000-33,334IU/mg.