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32-1936: MCP 2 Recombinant Protein

Alternative Name : 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.

Description

Source : Escherichia Coli. 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. Chemokine (C-C motif) ligand 8 (CCL8) is a small cytokine belonging to the CC chemokine family that was once called monocyte chemotactic protein-2 (MCP-2). The CCL8 protein is produced as a precursor containing 109 amino acids, which is cleaved to produce mature CCL8 containing 75 amino acids. The gene for CCL8 is encoded by 3 exons and is located within a large cluster of CC chemokines on chromosome 17q11.2 in humans. MCP-2 is chemotactic for and activates a many different immune cells, including mast cells, eosinophils and basophils, (that are implicated in allergic responses), and monocytes, T cells, and NK cells that are involved in the inflammatory response. CCL8 elicits its effects by binding to several different cell surface receptors called chemokine receptors. These receptors include CCR1, CCR2B and CCR5.

Product Info

Amount :	10 µg
Purification :	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing no additives.
Storage condition :	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 :	The sequence of the first five N-terminal amino acids was determined and was found to be Gln-Pro-Asp-Ser-Val.

Application Note

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. 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.

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