

Monocyte Chemotactic Protein-1 Human E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RP1772710005	(5 µg)
Species: Human	RP1772710020	(20 ug)
Other names: MCP-1, CCL2, C-C motif chemokine 2, MCAF	RP1772711000	(1 mg)

Description

Monocyte Chemotactic Protein-1 Human Recombinant also known as Monocyte Chemotactic and Activating Factor (MCAF) produced in E.coli is a non-glycosylated, Polypeptide chain containing 76 amino acids and having a molecular mass of 8607 Dalton. The MCP-1 is purified by proprietary chromatographic techniques.

Introduction to the Molecule

Monocyte chemotactic protein-1 (MCP-1) is a member of the C-C family of chemokines. Chemokines are mediators that share the capacity to induce directional migration of leukocytes. MCP-1 is a chemoattractant for many cell types such as monocytes, neutrophils, hepatic stellate cells, granulocytes and T lymphocytes. MCP-1 is believed to play a role in a variety of pathological conditions, including inflammatory and immune reactions, atherosclerosis and neoplasia. Monocyte Chemotactic Protein-1 (MCP-1) is also known as Monocyte Chemotactic Activating Factor (MCAF) or CCL2.

Research topic

Cytokines and chemokines and related molecules, Energy metabolism and body weight regulation

Amino Acid Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Gln-Pro-Asp-Ala-Ile.

Source

E. coli

Purity

Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE

Biological Activity

The specific activity as determined by the ability of MCP-1 to chemoattract human Monocytes using a concentration of 5-20 ng/ml.

Formulation

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

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Lyophilized MCP-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CCL2 should 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.**

Physical Appearance

Sterile filtered White lyophilized powder.

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