
Product Data Sheet

Product Name: MCP 2 Mouse
 Cat. No.: GP21155
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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; AB023418; 1810063B20Rik.		
Amino Acid Sequence	GPKAPVTCC FHV LK LK I P L R V L K S Y E R I N N I Q C P M E A V V F Q T K Q G M S L C V D P T Q K W V S E Y M E I L D Q K S Q I L Q P.		
Solubility	It is recommended to reconstitute the lyophilized CCL8 in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated (1.0mg/ml) solution in 20mM PB, pH 7.4, 150mM NaCl.		

Introduction

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.

Biological Activity

Caution: Product has not been fully validated for medical applications. For research use only.

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Determined by its ability to chemoattract human peripheral blood monocytes using a concentration range of 10-100ng/ml corresponding to a Specific Activity of 10,000-100,000IU/mg.

Stability

Lyophilized MCP-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution CCL8 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.

Background

Monocyte Chemotactic Protein-2 Mouse Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 74 amino acids and having a molecular mass of 8507 Dalton. The MCP-2 is purified by proprietary chromatographic techniques.

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