

OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES

Phone: +1-858-888-7900 Fax: +1-858-888-7904 US-info@acris-antibodies.com PA1158XC

OriGene EU

Acris Antibodies GmbH

Schillerstr. 5 32052 Herford GERMANY

Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info@acris-antibodies.com

Recombinant Rat Monocyte Chemotactic Protein-1

(CCL2)

Alternate names: CCL2, MCP1
Catalog No.: PA1158XC
Quantity: 1 mg
Concentration: 1 mg/ml
Species: Rat

Source: E. coli, E.coli

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

Purity: >95% Greater than 95.0% as determined by:

(a) Analysis by RP-HPLC.(b) Anion-exchange FPLC.

(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained.

Buffer System: Recombinant MCP-1 was lyophilized from a concentrated sterile solution

containing no additives.

Endotoxin Level: Less than 0.1 ng/µg (IEU/µg) of Rat Monocyte Chemotactic Protein-1.

Dimers: Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

Reconstitution: It is recommended to reconstitute the lyophilized Rat MCP-1 in sterile 18MO-

cm H2O not less than $100\mu g/ml$, which can then be further diluted to other aqueous

solutions.

Description: Recombinant Rat MCP-1 produced in E.Coli is a non-glycosylated, Polypeptide chain

containing 125 amino acids. Rat Monocyte Chemotactic Protein-1 is purified by proprietary

chromatographic techniques.

AA Sequence:

The sequence of the first five N-terminal amino acids was determined and was

found to be Gln-Pro-Asp-Ala-Val.

Biological Activity: MCP-1 is fully biologically active when compared to standard. The specific activity as determined by the ability of Rat MCP-1 to chemoattract human

peripheral blood at 10-100ng/ml. Molecular weight: 14092 Dalton.

Molecular weight: 14 kDa

Add. Information: Protein quantitation was carried out by two independent methods:

1. UV spectroscopy at 280 nm.

2. Analysis by RP-HPLC, using a calibrated solution of Rat MCP-1 as a Reference Standard.

TIV NORD
TOWNORD CERT
COMMENT

THE N ISO SOST

Artifodies Grafit



PA1158XC: Recombinant Rat Monocyte Chemotactic Protein-1 (CCL2)

Storage:

Recombinant Monocyte Chemotactic Protein-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18 C. Upon reconstitution Monocyte Chemotactic Protein-1 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 avoid freeze-thaw cycles.

General Readings:

- 1. Mitomycin C upregulates IL-8 and MCP-1 chemokine expression via mitogen-activated protein kinases in corneal fibroblasts. Invest Ophthalmol Vis Sci 2007 May;48(5):2009-16 2. Elevated ICAM-1 and MCP-1 plasma levels in subjects at high cardiovascular risk are diminished by atorvastatin treatment. Atorvastatin on Inflammatory Markers study: a substudy of Achieve Cholesterol Targets Fast with Atorvastatin Stratified Titration. Am Heart J 2007 May;153(5):881-8
- 3. Inhibition of migration of monocytes and granulocytes in vivo by the peptide corresponding to sequence 65-76 of monocyte chemotactic protein-1 (MCP-1). Dokl Biochem Biophys 2006 Nov-Dec;411:339-41
- 4. Elevated white blood cell count, CRP and fibrinogen levels are not associated with increased anti-endothelial and anti-ox-LDL antibody, MCP-1, and RANTES levels in early onset occlusive carotid artery disease. Cytokine 2007 Jan; 37(1):44-50
- 5. Coxiella burnetii stimulates production of RANTES and MCP-1 by mononuc lear cells: modulation by adhesion to endothelial cells and its implication in Q fever. Eur Cytokine Netw 2006 Dec;17(4):253-9
- 6. Changes in serum and ascitic monocyte chemotactic protein-1 (MCP-1) and IL-10 levels in cirrhotic patients with spontaneous bacterial peritonitis. J Interferon Cytokine Res 2007 Mar;27(3):227-30

Pictures:

PA1158XCME0607



