

## OriGene Technologies Inc.

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## PA1161 OriGene EU

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## Recombinant Murine Monocyte Chemotactic Protein-3 (CCL7)

Alternate names:	CCL7, MCP3
Catalog No.:	PA1161
Quantity:	2 µg
Concentration:	1 mg/ml
Species:	Mouse
Source:	E. coli, E.coli
Format:	<ul> <li>State: Sterile Filtered White lyophilized (freeze-dried) powder.</li> <li>Purity: &gt;99% Greater than 99.0% as determined by: <ul> <li>(a) Analysis by RP-HPLC.</li> <li>(b) Anion-exchange FPLC.</li> <li>(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained.</li> </ul> </li> <li>Buffer System: The protein was lyophilized from a concentrated sterile solution containing no additives.</li> <li>Endotoxin Level: Less than 0.1 ng/µg (IEU/µg) of Murine Monocyte Chemotactic Protein-3. Dimers: Less than 1% as determined by silver-stained SDS-PAGE gel analysis.</li> <li>Reconstitution: It is recommended to reconstitute the lyophilized MCP-3 in sterile 18MO-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.</li> </ul>
Description:	<ul> <li>Recombinant Murine MCP-3 produced in E.Coli is a non-glycosylated, Polypeptide chain containing 74 amino acids. Murine Monocyte Chemotactic Protein-3 is purified by proprietary chromatographic techniques.</li> <li>AA Sequence:</li> <li>The sequence of the first five N-terminal amino acids was determined and was found to be Gln-Pro-Ala-Gly-Pro.</li> <li>Biological Activity: Murine MCP-3 is fully biologically active when compared to standard. The specific activity as determined by the ability of Murine MCP-3 to chemoattract Balb/C mouse spleen MNCs at 10-100ng/ml.</li> <li>Molecular weight: 8510 Dalton.</li> <li>Molecular weight: 9 kDa</li> </ul>
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 Murine MCP-3 as a Reference Standard.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.



OG/20130513

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com

	PA1161: Recombinant Murine Monocyte Chemotactic Protein-3 (CCL7)
Storage:	Lyophilized Monocyte Chemotactic Protein-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18 C. Upon reconstitution Monocyte Chemotactic Protein-3 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:	<ol> <li>Tsou CL, Peters W, Si Y, Slaymaker S, Aslanian AM, Weisberg SP, et al. Critical roles for CCR2 and MCP-3 in monocyte mobilization from bone marrow and recruitment to inflammatory sites. J Clin Invest. 2007 Apr;117(4):902-9. Epub 2007 Mar 15. PubMed PMID: 17364026.</li> <li>Wetzel K, Struyf S, Van Damme J, Kayser T, Vecchi A, Sozzani S, et al. MCP-3 (CCL7) delivered by parvovirus MVMp reduces tumorigenicity of mouse melanoma cells through activation of T lymphocytes and NK cells. Int J Cancer. 2007 Mar 15;120(6):1364-71. PubMed PMID: 17154174.</li> <li>Meyer-Hoffert U, Lezcano-Meza D, Bartels J, Montes-Vizuet AR, Schröder JM, Teran LM. Th2- and to a lesser extent Th1-type cytokines upregulate the production of both CXC (IL-8 and gro-alpha) and CC (RANTES, eotaxin, eotaxin-2, MCP-3 and MCP-4) chemokines in human airway epithelial cells. Int Arch Allergy Immunol. 2003 Aug;131(4):264-71. PubMed PMID: 12915769.</li> <li>Hu JY, Li GC, Zhu JG, Wang WM, Li YH, Zhou GH, et al. [Active immunity for anti-colorectal cancer induced by chemokine MCP-3 gene transfection]. Ai Zheng. 2002 May;21(5):504-8. PubMed PMID: 12452041.</li> <li>Hu JY, Li GC, Wang WM, Zhu JG, Li YF, Zhou GH, et al. Transfection of colorectal cancer cells with chemokine MCP-3 (monocyte chemotactic protein-3) gene retards tumor growth and inhibits tumor metastasis. World J Gastroenterol. 2002 Dec;8(6):1067-72. PubMed PMID: 12439927.</li> <li>Nelissen I, Dubois B, Goris A, Ronsse I, Carton H, Opdenakker G. Gelatinase B, PECAM-1 and MCP-3 gene polymorphisms in Belgian multiple sclerosis. J Neurol Sci. 2002 Aug 15;200(1-2):43-8. PubMed PMID: 12127674.</li> </ol>
Pictures:	PA1161ME0607

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 1 HEISATLLCL LLIAMAFSIQ WHOPDOPNA STCCYWKKK IPKRHLKSYR RITSSRCPHE
 Cc.17

 Signal
 Signal

 Signal
 Signal

 Signal
 Conflict

disulfide disulfide

Col7 Small inducible cytokine A7 precursor Mature chain

61 AVIFKTIKKCH EVCRERHIKLI VEERIAYLDH KTPTPKP Sal inducib Ball inducib

disulfide

Sequence: