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PA1160 OriGene EU

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Recombinant Human Monocyte Chemotactic Protein-3 (CCL7)

Alternate names:	CCL7, MCP3
Catalog No.:	PA1160
Quantity:	2 µg
Concentration:	1 mg/ml
Species:	Human
Source:	E. coli, E.coli
Format:	 State: Sterile Filtered White lyophilized (freeze-dried) powder. Purity: >99% Greater than 99.0% 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 Human Monocyte Chemotactic Protein-3 was lyophilized from a concentrated sterile solution containing no additives. Endotoxin Level: Less than 0.1 ng/µg (IEU/µg) of recombinant Monocyte Chemotactic Protein-3. Dimers: Less than 1% as determined by silver-stained SDS-PAGE gel analysis. 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.
Description:	Recombinant Human MCP-3 produced in E.Coli is a non-glycosylated, Polypeptide chain containing 76 amino acids. Human Monocyte Chemotactic Protein-3 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-Val-Gly-Ile. Biological Activity: MCP-3 is fully biologically active when compared to standard. The specific activity as determined by the ability of MCP-3 to chemoattract human peripheral blood at 10-100ng/ml. Molecular weight: 9011 Dalton. Molecular weight: 9 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 Human MCP-2 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

	PA1160: Recombinant Human 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:	1. 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.
	 McManus C, Berman JW, Brett FM, Staunton H, Farrell M, Brosnan CF. MCP-1, MCP-2 and MCP-3 expression in multiple sclerosis lesions: an immunohistochemical and in situ hybridization study. J Neuroimmunol. 1998 Jun 1;86(1):20-9. PubMed PMID: 9655469. Uguccioni M, Loetscher P, Forssmann U, Dewald B, Li H, Lima SH, et al. Monocyte chemotactic protein 4 (MCP-4), a novel structural and functional analogue of MCP-3 and eotaxin. J Exp Med. 1996 May 1;183(5):2379-84. PubMed PMID: 8642349. Proost P, Van Leuven P, Wuyts A, Ebberink R, Opdenakker G, Van Damme J. Chemical synthesis, purification and folding of the human monocyte chemotactic proteins MCP-2 and MCP-3 into biologically active chemokines. Cytokine. 1995 Feb;7(2):97-104. PubMed PMID: 7780043.
	 5. Uguccioni M, D'Apuzzo M, Loetscher M, Dewald B, Baggiolini M. Actions of the chemotactic cytokines MCP-1, MCP-2, MCP-3, RANTES, MIP-1 alpha and MIP-1 beta on human monocytes. Eur J Immunol. 1995 Jan;25(1):64-8. PubMed PMID: 7531149. 6. Opdenakker G, Froyen G, Fiten P, Proost P, Van Damme J. Human monocyte chemotactic protein-3 (MCP-3): molecular cloning of the cDNA and comparison with other chemokines. Biochem Biophys Res Commun. 1993 Mar 15;191(2):535-42. PubMed PMID: 8461011.
Pictures:	PA1160ME0607

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KASAALLEL LLTAAAFSPQ GLAOPVCINT STTCCYRFIN KKIPKORLES YRRTTSSHCP

Beta-strand region Conflict Beta-strand region

rrolidone-carboxylic-acid

61 REAVIFKTKL DKEICADPTO KUVODFHKHL DKKTOTPKL

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CCL7 Small inducible cyt Chemokine CC Mature châin ydrogen bonded turn

strand region
 disulfide
 disulfide

CCL7 Small inducible cytokine A7 pr Mature chain