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Recombinant Murine Monocyte Chemotactic Protein-3 (CCL7)

Alternate names: CCL7, MCP3
Catalog No.: PA1161XC
Quantity: 1 mg
Concentration: 1 mg/ml
Species: Mouse

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: The protein was lyophilized from a concentrated sterile solution containing

no additives.

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.

Reconstitution: It is recommended to reconstitute the lyophilized MCP-3 in sterile 18MO-cm H2O not less than $100\mu g/ml$, which can then be further diluted to other aqueous solutions.

Description: 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.

AA Sequence:

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

found to be Gln-Pro-Ala-Gly-Pro.

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. Molecular weight: 8510 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 Murine MCP-3 as a Reference

Standard.





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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.
- 2. 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.

Pictures:

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