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PA1165X OriGene EU

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Recombinant Human Macrophage Inflammatory protein-1 alpha (CCL3)

Alternate names:	CCL3, MIP1 alpha
Catalog No.:	PA1165X
Quantity:	20 μg
Concentration:	0.55 mg/ml
Species:	Human
Source:	E. coli, E.coli
Format:	 State: Sterile Filtered White lyophilized (freeze-dried) powder. Purity: >98% Greater than 98.0% 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: Lyophilized from a concentrated solution in water containing no additives. Endotoxin Level: Less than 0.1 ng/µg (IEU/µg) of rHuMIP-1. Dimers: Less than 1% as determined by silver-stained SDS-PAGE gel analysis. Reconstitution: It is recommended to reconstitute the lyophilized rHuMIP-1a in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Description:	 Recombinant Human MIP-1 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 70 amino acids. The rHuMIP-1a 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, Ala-Ser-Leu-Ala-Ala. Biological Activity: UV spectroscopy at 280 nm using the absorbency value of 0.9 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). Molecular weight: 7820 Dalton. Molecular weight: 8 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 standard solution of MIP-1 as a Reference Standard.
Storage:	Lyophilized rHuMIP-1a although stable at room temperature for 3 weeks, should be stored desiccated below -18 C. Upon reconstitution rHuMIP-1a 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.

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



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General Readings: 1. De Francesco MA, Poiesi C, Ricotta D, Manca N. HIV p17 reverses the anti-inflammatory activity of IL-4 on IL-15 stimulated monocytes and modulates their ability to secrete MIP-1 alpha. Virus Res. 2006 Jun;118(1-2):170-7. Epub 2006 Jan 19. PubMed PMID: 16427155.
2. Nishi T, Maier CM, Hayashi T, Saito A, Chan PH. Superoxide dismutase 1 overexpression reduces MCP-1 and MIP-1 alpha expression after transient focal cerebral ischemia. J Cereb Blood Flow Metab. 2005 Oct;25(10):1312-24. PubMed PMID: 15829914.

3. Brueckmann M, Hoffmann U, Dvortsak E, Lang S, Kaden JJ, Borggrefe M, et al. Drotrecogin alfa (activated) inhibits NF-kappa B activation and MIP-1-alpha release from isolated mononuclear cells of patients with severe sepsis. Inflamm Res. 2004 Oct;53(10):528-33. PubMed PMID: 15597147.

4. Jennes W, Vereecken C, Fransen K, de Roo A, Kestens L. Disturbed secretory capacity for macrophage inflammatory protein (MIP)-1 alpha and MIP-1 beta in progressive HIV infection. AIDS Res Hum Retroviruses. 2004 Oct;20(10):1087-91. PubMed PMID: 15585099. 5. Shi BB, Wang HJ, Ji ZG, Wang JT, Li HZ. [Clinical significance of RANTES and MIP-1 alpha in acute rejection episode in kidney transplantation]. Zhongguo Yi Xue Ke Xue Yuan Xue Bao. 2004 Feb;26(1):70-2. PubMed PMID: 15052779.

6. MIP-1 alpha and myeloma bone disease. Cancer Treat Res 2004;118:83-100

