

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

OriGene EU

PA1165XC

Acris Antibodies GmbH

Schillerstr. 5 32052 Herford GERMANY

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

Recombinant Human Macrophage Inflammatory protein-1 alpha (CCL3)

Alternate names: CCL3, MIP1 alpha

Catalog No.: PA1165XC

Quantity: 1 mg

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/ μ g (IEU/ μ g) 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-1 α in sterile 18M Ω -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.

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



OG/20130513



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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

