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# OriGene EU

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# Recombinant Human Macrophage Inflammatory protein-3 beta (CCL19)

Alternate names: CCL19, MIP3 beta

Catalog No.:PA1169Quantity:5 μgConcentration:1.0 mg/ml

**Species:** 

Source: E. coli, E.coli

Human

**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 macrophage inflammatory protein 3beta, lyophilized from a

concentrated solution in water containing no additives. **Endotoxin Level:** Less than 0.1 ng/µg (IEU/µg) of MIP-3b.

**Dimers:** Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

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

solutions.

**Description:** Recombinant Human MIP-3b produced in E.Coli is a single, non-glycosylated, polypeptide

chain containing 77 amino acids. Recombinant MIP-3 beta 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, Gly-Thr-Asn-Asp-Ala.

**Biological Activity:** This macrophage inflammatory protein 3beta is fully biologically active when compared to standard. The Activity is calculated by the ability to chemoattract

Human T cells using a concentration of 10-50 ng/ml.

Molecular weight: 8809 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 standard solution of MIP-3beta as a Reference Standard.

Storage: Lyophilized MIP-3beta although stable at room temperature for 3 weeks, should be stored

desiccated below -18 C. Upon reconstitution MIP-3b 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. Hansson M, Lundgren A, Elgbratt K, Quiding-Järbrink M, Svennerholm AM, Johansson EL. Dendritic cells express CCR7 and migrate in response to CCL19 (MIP-3beta) after exposure to Helicobacter pylori. Microbes Infect. 2006 Mar;8(3):841-50. Epub 2006 Jan 13. PubMed PMID: 16500130.
- 2. Pilkington KR, Clark-Lewis I, McColl SR. Inhibition of generation of cytotoxic T lymphocyte activity by a CCL19/macrophage inflammatory protein (MIP)-3beta antagonist. J Biol Chem. 2004 Sep 24;279(39):40276-82. Epub 2004 Jul 1. PubMed PMID: 15231820.
- 3. Akahoshi T, Sasahara T, Namai R, Matsui T, Watabe H, Kitasato H, et al. Production of macrophage inflammatory protein 3alpha (MIP-3alpha) (CCL20) and MIP-3beta (CCL19) by human peripheral blood neutrophils in response to microbial pathogens. Infect Immun. 2003 Jan;71(1):524-6. PubMed PMID: 12496204.
- 4. Townson JR, Nibbs RJ. Characterization of mouse CCX-CKR, a receptor for the lymphocyte-attracting chemokines TECK/mCCL25, SLC/mCCL21 and MIP-3beta/mCCL19: comparison to human CCX-CKR. Eur J Immunol. 2002 May;32(5):1230-41. PubMed PMID: 11981810.
- 5. Parlato S, Santini SM, Lapenta C, Di Pucchio T, Logozzi M, Spada M, et al. Expression of CCR-7, MIP-3beta, and Th-1 chemokines in type I IFN-induced monocyte-derived dendritic cells: importance for the rapid acquisition of potent migratory and functional activities. Blood. 2001 Nov 15;98(10):3022-9. PubMed PMID: 11698286.
- 6. Scapini P, Laudanna C, Pinardi C, Allavena P, Mantovani A, Sozzani S, et al. Neutrophils produce biologically active macrophage inflammatory protein-3alpha (MIP-3alpha)/CCL20 and MIP-3beta/CCL19. Eur J Immunol. 2001 Jul;31(7):1981-8. PubMed PMID: 11449350.

**Pictures:** 

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