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Recombinant Mouse Macrophage Inflammatory Protein-1 beta / CCL4

Catalog No.	CRM413A	**Quantity:**	2 µg
	CRM413B		10 µg
	CRM413C		1.0 mg

Alternate Names: CCL4, ACT-2

Description: Chemokine (C-C motif) ligand 4, also known as Macrophage inflammatory protein-1D (MIP-1D) is a CC chemokine with specificity for CCR5 receptors and it is a major HIV-suppressive factor produced by CD8+ T cells. In addition, it is a monokine with inflammatory and chemokinetic properties. Recombinant CCL4 induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). Furthermore, recombinant mouse CCL4 contains 69 amino acids and it shares 77% and 86% a.a. sequence identity with human and rat CCL4. Both human and murine MIP-1H and MIP-1D are active on human and murine hematopoietic cells.

Gene ID: 20303

Protein Accession No: Q5QNV9

Source: *E. coli*

Molecular Weight: Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 69 amino acids.

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4.

Purity: >97% by SDS-PAGE and HPLC analyses.

Endotoxin Level: Less than 1 EU/µg as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The biologically active determined by a chemotaxis bioassay using human monocytes is in a concentration range of 20-100 ng/ml.

Amino Acid Sequence: APMGSDPPTS CCFSYTSRQL HRSFVMDYYE TSSLCSKPAV VFLTKRGRQI CANPSEPWVT EYMSDLELN

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2 -4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. **Avoid repeated freeze/thaw cycles.**

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