

Recombinant Mouse Ccl4 protein

Cat. No. Ccl4-615M **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|--|
| Product Overview | Recombinant Mouse Ccl4 protein was expressed in Escherichia coli. |
| Species | Mouse |
| Source | E.coli |
| ProteinLength | 69 |
| Description | Chemokine (C-C motif) ligand 4, also known as Macrophage inflammatory protein-1 β (MIP-1 β) 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 murine 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-1 α and MIP-1 β are active on human and murine hematopoietic cells. |
| Form | Lyophilized from a 0.2 μ m filtered concentrated solution in 2 x PBS, pH 7.4. |
| Bio-activity | Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration range of 20-100 ng/ml. |
| Molecular Mass | Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 69 amino acids. |

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| | |
|-----------------------|---|
| AA Sequence | APMGSDPPTSCCFSYTSRQLHRSFVMDYYETSSLCSKPAVVFLTKRGRQICANPSE PWVTEYMSDLELN |
| Endotoxin | Less than 1 EU/g of rMuMIP-1 β /CCL4 as determined by LAL method. |
| Purity | >97% by SDS-PAGE and HPLC analysis. |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution. |
| Reconstitution | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at \leq -20 centigrade. Further dilutions should be made in appropriate buffered solutions. |

GENE INFORMATION

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| Gene Name | Ccl4 |
| Official Symbol | Ccl4 |
| Synonyms | CCL4; chemokine (C-C motif) ligand 4; C-C motif chemokine 4; ACT2; SIS-gamma; MIP-1 beta; MIP-1-beta; immune activation protein 2; small inducible cytokine A4; small-inducible cytokine A4; macrophage inflammatory protein 1-beta; Act-2; Mip1b; Scya4; MIP-1B; AT744.1; |
| Gene ID | 20303 |

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mRNA Refseq [NM_013652](#)

Protein Refseq [NP_038680](#)

UniProt ID [P14097](#)

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