

Recombinant Mouse Ccl4 protein

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

SPECIFICATION

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 $\times$ 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

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
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Protein Refseq	NP_038680
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UniProt ID	P14097
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