Recombinant Rat Ccl4 protein

Cat. No. Ccl4-634R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Ccl4 protein was expressed in Escherichia coli.
Species	Rat
Source	E.coli
ProteinLength	69
Description	Chemokine (C-C motif) ligand 4 encoded by the CCL4 gene, also known as macrophage inflammatory protein-1β (MIP-1β) 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 chemoattractant for natural killer cells, monocytes and a variety of other immune cells. Recombinant CCL4 induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). Furthermore, recombinant rat CCL4 contains 69 amino acids and it shares 80% and 86% a.a. sequence identity with human and murine CCL4. Both human and murine MIP-1α and MIP-1β are active on human and murine hematopoietic cells.
Form	Lyophilized from a 0.2μm filtered concentrated solution in 2 × PBS, pH 7.4, 3 % trehalose.
Bio-activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood monocytes is in a concentration range of 10-1000 ng/ml.

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Molecular Mass	Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 69 amino acids.
AA Sequence	APIGSDPPTSCCFSYTSRKIHRNFVMDYYETSSLCSQPAVVFLTKKGRQICADPSEPWVNEYVNDLELN
Endotoxin	Less than 1 EU/μg of rRtMIP-1β/CCL4 as determined by LAL method.
Purity	>95% 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 ≤-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; MIP-1-beta; small inducible cytokine A4; small-inducible cytokine A4; macrophage inflammatory protein 1-beta; macrophage inflammatory protein-1 beta; Scya4; Mip1-b;

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Gene ID	116637
mRNA Refseq	NM_053858
Protein Refseq	NP_446310
UniProt ID	P50230

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