Recombinant Human Macrophage Inflammatory Protein-1 beta/CCL4 (rHuMIP-1β/CCL4)

PrimeGene Technical Data Sheet

Catalog Number:	204-04
Source:	*Escherichia coli.*
Molecular Weight:	Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 69 amino acids.
Quantity:	2μg/10μg/1000μg
AA Sequence:	APMGSDPPTA CCFSYTARKL PRNFVVDYYE TSSLCSQPAV VFQTKRSKQV CADPSESWVQ EYVYDLELN
Purity:	> 96 % by SDS-PAGE and HPLC analyses.
Biological 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 5.0-20 ng/ml.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.
Endotoxin:	Less than 1 EU/μg of rHuMIP-1β/CCL4 as determined by LAL method.
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 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. **NOT FOR HUMAN USE**.

Human Macrophage Inflammatory Protein-1 beta/CCL4

CCL4 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. 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). Specifically, MIP-1-beta (3-69) is also a ligand for CCR1 and CCR2 isoform B. Recombinant human CCL4 contains 69 amino acids and it shares 77 % and 80 % a.a. sequence identity with murine and rat CCL4, respectively. Both human and murine MIP-1α and MIP-1β are active on human and murine hematopoietic cells.

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