

ChemWhot Recombinant Human Macrophage Inflammatory Protein-1 beta/CCL4

(rHuMIP-1\beta/CCL4)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:

204-04

Source:

Escherichia coli.

Molecular Weight:

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

Quantity:

 $2 \mu g / 10 \mu g / 1000 \mu g$

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 \leq -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:

ChemWhat Limited in UK offers this branded product for research, development 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-1 α and MIP-1 β are active on human and murine hematopoietic cells.

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