

# MIP-1β/CCL4

Catalog # PVGS1110

## Specification

## MIP-1β/CCL4 - Product Information

Primary Accession **Species** Human <u>P13236-1</u>

Sequence Ala24-Asn92

Purity > 96% as analyzed by SDS-PAGE<br>> 96% as analyzed by HPLC

**Endotoxin Level** < 1 EU/ μg of protein by LAL method

**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 5.0-20.0 ng/ml.

Expression System E. coli

**Theoretical Molecular Weight** 7.8 kDa

Formulation

Lyophilized from a 0.2 µm filtered solution in 20 mM PB, pH 7.4, 150 mM NaCl.

Reconstitution

It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.

Storage & Stability

Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

## MIP-1β/CCL4 - Additional Information

#### **Target Background**

Macrophage inflammatory protein 1 beta (MIP-1 $\beta$ ), also known as Chemokine (C-C motif) ligand 4 (CCL4), is a small cytokine belonging to the CC chemokine family. It is a chemo attractant for natural killer cells, monocytes and a variety of other immune cells. MIP-1 $\beta$  is a major HIV-suppressive factor produced by CD8<sup>+</sup> T cells. Perforin-low memory CD8<sup>+</sup> T cells are the most common T-cells that normally synthesize MIP-1-beta in



humans. MIP-1 $\beta$  has been shown to interact with CCL3. It can signal through the CCR5 receptor.

MIP-1β/CCL4 - Protein Information

#### MIP-1β/CCL4 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

 $MIP-1\beta/CCL4 - Images$