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# CCL4 Protein (AA 24-92)





#### Overview

| Quantity:                | 100 μg                     |
|--------------------------|----------------------------|
| Target:                  | CCL4                       |
| Protein Characteristics: | AA 24-92                   |
| Origin:                  | Human                      |
| Source:                  | Escherichia coli (E. coli) |
| Protein Type:            | Recombinant                |
| Biological Activity:     | Active                     |
| Application:             | Cell Migration Assay (CMA) |

# **Product Details**

| Sequence:                    | APMGSDPPTA CCFSYTARKL PRNFVVDYYE TSSLCSQPAV VFQTKRSKQV CADPSESWVQ<br>EYVYDLELN |
|------------------------------|--|
| Characteristics:             | Recombinant Human CCL4 (MIP-1beta)   |
| Endotoxin Level:             | <0.01 EU per 1µg of the protein by the LAL method                              |
| Biological Activity Comment: | EC50 = 0.23 nM determined by Calcium Flux                                      |

## **Target Details**

| Target:           | CCL4  |
|-------------------|---|
| Alternative Name: | CCL4 (MIP-1beta) (CCL4 Products)  |
| Background:       | Monokine with inflammatory and chemokinetic properties binds to CCR5. One of the major HIV- |

suppressive factors produced by CD8+ T-cells. Recombinant MIP-1-beta induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). The processed form MIP-1-beta (3-69) retains the abilities to induce down-modulation of surface expression of the chemokine receptor CCR5 and to inhibit the CCR5-mediated entry of HIV-1 in T-cells. MIP-1-beta(3-69) is also a ligand for CCR1 and CCR2 isoform B.

| Molecular Weight: | 7.818 kDa |  |
|-------------------|-----------|--|
| UniProt:          | P13236    |  |

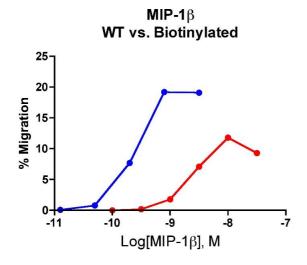
#### **Application Details**

| Application Notes: | Optimal working dilution should be determined by the investigator. |
|--------------------|--|
| Restrictions:      | For Research Use only  |

### Handling

| Format:          | Lyophilized  |
|------------------|--|
| Reconstitution:  | Spin tube prior to resuspending. Recommended at 100 µg/mL in sterile water   |
| Storage:         | -20 °C,-80 °C  |
| Storage Comment: | 12 months from date of receipt, -20 to -70 °C as supplied.  Suggest to use immediately after reconstitution  1 month at -20 to -70 °C under sterile conditions after reconstitution. |
| Expiry Date:     | 12 months  |

# Validation report #104433 for ELISA (ELISA)



#### **Cellular Assay**

**Image 1.** Cells expressing recombinant CCR5 were assayed for migration through a transwell filter at various concentrations of WT or Biotinylated MIP-1β. Responses are expressed as the % of total input cells (Blue: wild type; Red: biotinylated).