

## Recombinant CCL4 (MIP-1 $\beta$ )

### ORDERING INFORMATION

Catalog No.	Size
50191P-5	5ug
50191P-20	20ug
50191P-50	50ug
50191P-100	100ug
50191P-1000	1000ug

### BACKGROUND

CCL4, also known as Macrophage Inflammatory Protein-1beta (MIP-1 $\beta$ ) is a small cytokine (~9kDa) that belongs to the CC chemokine family. CCL4 binds to CCR1, CCR2 isoform B, and CCR5. CCL4 is 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 of MIP-1 $\beta$  (aa 3-69) retains the abilities to induce down-modulation of surface expression of CCR5 and to inhibit CCR5-mediated entry of HIV-1 into T-cells.

### DESCRIPTION

<b>Source:</b>	Recombinant human CCL4 is produced in <i>E. coli</i> (accession no. P13236, aa 24-92).
<b>Protein Sequence:</b>	APMGSDPPTACCFSTARKLPRNFVVDYYETSSLCSQPAVVFQTK RSKQVCADPSESWWQEYVYDLELN
<b>Molecular Mass:</b>	7.818kDa by Mass Spec.
<b>Purity:</b>	>97% by SDS-PAGE
<b>Activity:</b>	EC50 = 0.45-0.63nM determined by Migration Assay in cells expressing recombinant CCR5.
<b>Endotoxin Level:</b>	<0.01 EU per 1ug of protein by LAL method.
<b>Form:</b>	Lyophilized.
<b>Carrier Protein:</b>	None.

### PREPARATION AND STORAGE

<b>Reconstitution:</b>	Recommended at 100ug/ml in sterile distilled water.
<b>Stability and Storage:</b>	12 months from date of receipt, -20°C to -70°C, as supplied. 1 month, -20°C to -70°C, under sterile conditions after reconstitution. Best if used immediately after reconstitution. <b>Avoid multiple freeze-thaw cycles.</b>

*For in vitro investigational use only. Not for use in diagnostic or therapeutic procedures.*