

Recombinant CCL4 (MIP-1 β), biotinylated

ORDERING INFORMATION

Catalog No.	Size
50191PB-2	2ug
50191PB-10	10ug
50191PB-50	50ug
50191PB-100	100ug

BACKGROUND

CCL4, also known as Macrophage Inflammatory Protein-1beta (MIP-1 β) 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 β induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). The processed form of MIP-1 β (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

Source:	Recombinant human CCL4 is produced in <i>E. coli</i> (accession no. P13236, aa 24-92).
Modification:	Biotinylated
Protein Sequence:	APMGSDPPTACCFSTARKLPRNFVVDYYETSSLCSPAVVFQTK RSKQVCADPSESQVYVYDLELN
Molecular Mass:	10.237kDa by Mass Spec.
Purity:	>97% by SDS-PAGE
Activity:	EC50 = 0.32-1.3nM determined by Migration Assay in cells expressing recombinant CCR5.
Endotoxin Level:	<0.01 EU per 1ug of protein by LAL method.
Form:	Lyophilized.
Carrier Protein:	None.

PREPARATION AND STORAGE

Reconstitution:	Centrifuge tube prior to resuspending. Recommended at 100ug/ml in sterile distilled water.
Stability and Storage:	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. Avoid multiple freeze-thaw cycles.

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