PRODUCT DATA SHEET



Bioworld Technology,Inc.

Recombinant MIP-1β /CCL4, Human

Catalog Number: BK0137-5µg Source: Escherichia coli. Quantity: 5µg

Description:

Macrophage inflammatory protein 1 beta (MIP-1β), also known as Chemokine (C-C motif) ligand 4(CCL4), is a small cytokine belonging to the CC chemokine family. It is a chemoattractant for natural killer cells, monocytes and a variety of other immune cells. MIP-1ßis a major HIV-suppressive factor produced by CD8+ T cells. Perforin-low memory CD8+ T cells are the most common T-cells that normally synthesize MIP-1-beta in humans. MIP-1βhas been shown to interact with CCL3. It can signal through the CCR5 receptor.Recombinant MIP-1 beta/CCL4 produced in E.coli is a single non-glycosylated polypeptide chain containing 69 amino acids. A fully biologically active molecule, rhMIP-1 beta/CCL4 has a molecular mass of 7.6 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

7.6 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

The EC50 value of human MIP-1 beta /CCL4 on Ca^2+ mobilization assay in CHO-K1/ $G\alpha15/hCCR5$ cells (human $G\alpha15$ and human CCR5 stably expressed in CHO-K1 cells) is less than 100 ng/ml.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

APMGSDPPTACCFSYTARKLPRN-FVVDYYETSSLCSQPAV-VFQTKRSKQVCADPSESWVQEYVYDLELN

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant human MIP-1 beta /CCL4 remains stable up to 6 months at -80 $^{\circ}$ C from date of receipt. Upon reconstitution, human MIP-1 beta /CCL4 should be stable up to 1 week at 4 $^{\circ}$ C or up to 2 months at -20 $^{\circ}$ C.

Usage:

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