

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant MIP-1 β /CCL4, Human

Catalog Number: BK0271-1mg

Source: CHO

Quantity: 1mg

Description:

Macrophage inflammatory protein 1 beta (MIP-1 β), 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 β is 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-1 β has been shown to interact with CCL3. It can signal through the CCR5 receptor. Recombinant MIP-1 beta/CCL4 produced in CHO is a polypeptide chain containing 69 amino acids. A fully biologically active molecule, rhMIP-1 beta/CCL4 has a molecular mass of 10-19 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

10-19 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 Ca²⁺ mobilization assay in CHO-K1/ Ga15/hCCR5 cells (human Ga15 and human CCR5 stably expressed in CHO-K1 cells) is less than 150 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/ μ g, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Storage:

Lyophilized recombinant Human MIP-1 β /CCL4 remains stable up to 6 months at -80 $^{\circ}$ C from date of receipt. Upon reconstitution, Human MIP-1 β /CCL4 should be stable up to 1 week at 4 $^{\circ}$ C or up to 3 months at -20 $^{\circ}$ C.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.