

Product Datasheet

RecombinantMIP-1β/CCL4, Human (orb1494680)

Catalog Number orb1494680

Category Proteins

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 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.

Form/Appearance Lyophilized after extensive dialysis against PBS.

Buffer/Preservatives Lyophilized after extensive dialysis against PBS.

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

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

Protein Sequence APMGSDPPTACCFSYTARKLPRNFVVDYYETSSLCSQPAVVFQTKRSKQVCADPSESWVQ

EYVYDLELN

MW 10-19 kDa, observed by reducing SDS-PAGE.

Application notes Reconstituted in ddH2O or PBS at 100 μg/ml.

Endotoxins 0.2 EU/μg, determined by LAL method.

Source CHO



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Biological Activity The EC50 value of human MIP-1 beta /CCL4 on Ca^2+ mobilization assay in CHO-

K1/ Gα15/hCCR5 cells (human Gα15 and human CCR5 stably expressed in CHO-

K1 cells) is less than 150 ng/ml.

Storage Lyophilized recombinant Human MIP-1β/CCL4 remains stable up to 6 months at -

80°C from date of receipt. Upon reconstitution, Human MIP-1β/CCL4 should be

stable up to 1 week at 4°C or up to 3 months at -20°C.

Note For research use only

Expiration Date 6 months from date of receipt.