

RECOMBINANT HUMAN MACROPHAGE INFLAMMATORY PROTEIN-1b (hMIP-1b/CCL4)

Catalog # 02668

10 mg per vial

Catalog # 02868

50 mg per vial

PRODUCT DESCRIPTION:

MIP-1 β is a member of the β (CC) family of chemokines. It is produced by fibroblasts, monocytes, T and B lymphocytes, neutrophils, smooth muscle cells, mast cells tumor cell lines. MIP-1 β is a chemoattractant for monocytes and T cells. In addition, MIP-1 β potentiates early hematopoietic precursors growth. The mature protein contains 69 amino acid residue and migrates with an apparent Mr of 7.8 kDa. MIP-1 β binds to CCR1, CCR5 and US28.

SOURCE:

A DNA sequence (APMGSDPPTACCFSTARKLPRNFVVDYYETSSLCSQPAVVVFQTKRSK QVCADPSESWVQEYVYDLELN) encoding the mature human MIP-1 β protein (Act-2 variant) was expressed in *E. coli*.

PURITY:

Greater than 97%, as determined by SDS-PAGE, visualized by silver-stain. Endotoxin level less than 0.1 ng per 1 μ g of the cytokine as determined by the LAL method.

FORMULATION:

Lyophilized from a 0.2 μ m filtered solution in 30% acetonitrile and 0.1% TFA, containing 50 μ g of bovine serum albumin per 1 μ g of cytokine.

RECONSTITUTION:

It is recommended that sterile phosphate-buffered saline containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 10 μ g/mL of the cytokine.

STABILITY/STORAGE:

Lyophilized samples are stable for greater than six months at -20°C to -70°C.

Reconstituted MIP-1 β /CCL4 can be stored under sterile conditions at 2°C to 4°C for one month or at -20°C to -70°C for three months without detectable loss of activity.

Avoid repeated freeze-thaw cycles.

ACTIVITY:

Activity was determined by ability to chemoattract cultured human monocytes or mouse BaF/3 cells transfected with hCCR5 and the ED₅₀ for these effects are typically 10 - 30 ng/mL for monocytes and 3 - 10 ng/mL for BaF/3 transfected hCCR5 cells.

**THIS REAGENT IS FOR RESEARCH USE ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**