

RECOMBINANT MOUSE MACROPHAGE INFLAMMATORY PROTEIN-1b (mMIP-1b/CCL4)

Catalog # 02768

10 mg per vial

Catalog # 02968

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 and tumor cell lines. MIP-1 β is a chemoattractant for monocytes and T cells, preferentially CD4⁺. In addition, MIP-1 β potentiates early hematopoietic precursors growth. MIP-1 β binds to CCR1, CCR5 and US28 receptors. The recombinant protein encoding the mature polypeptide contains 69 amino acid residue and migrates with an apparent Mr of 7.8 kDa.

SOURCE:

A DNA sequence encoding the mature mouse MIP-1 β protein was expressed in *E. coli*.

PURITY:

Greater than 97%, as determined by SDS-PAGE and 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, 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 mouse 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 mouse BaF/3 cells transfected with hCCR5 and the ED₅₀ for this effect was typically 3 - 12 ng/mL.

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