

RECOMBINANT MOUSE MACROPHAGE INFLAMMATORY PROTEIN-1a (mMIP-1a/CCL3)

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| Catalog # 02767 | 10 mg per vial |
| Catalog # 02967 | 50 mg per vial |

PRODUCT DESCRIPTION:

MIP-1 α is a member of the β (CC) family of chemokines. It is produced by T cells, B cells and monocytes after antigen or mitogen stimulation. MIP-1 α is a chemoattractant for monocytes, CD8 $^+$ T cells, B cells, and eosinophils. In addition, MIP-1 α acts as a stem cell inhibitory factor suppressing proliferation of hematopoietic precursors. Mouse MIP-1 α cDNA encodes a 92 amino acid residue precursor protein containing a 23 amino acid signal peptide. As reported for other chemokines, cleavage of the amino terminus domain dramatically reduces its activity. MIP-1 α binds to CCR1, CCR4 and CCR5 receptors. The 69 amino acid residues recombinant protein has a predicted molecular mass of approximately 7.8 kDa.

SOURCE:

A DNA sequence encoding the mature mouse MIP-1 α 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 35% 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 PBS 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 α /CCL3 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 BaF/3 cells transfected with the human CCR5 receptor and the ED₅₀ for the chemoattractant activity was typically 5 - 25 ng/mL or 1.5 - 6 ng/mL, respectively.

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