MIP-1alpha Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Macrophage Inflammatory Protein-1?, CCL3, LD78?

Cat. No.	
RBG10224005	(5 µg)
RBG10224020	(20 µg)
RBG10224100	(100 µg)

Description

Both MIP-1alpha and MIP-1beta are structurally and functionally related CC chemokines. They participate in host response to invading bacterial, viral, parasite and fungal pathogens, by regulating the trafficking, and activation state, of selected subgroups of inflammatory cells (e.g. macrophages, lymphocytes and NK cells). While both MIP-1alpha and MIP-1beta exert similar effects on monocytes, their effect on lymphocytes differ; with MIP-1alpha selectively attracting CD8+ lymphocytes, and MIP-1beta selectively attracting CD4+ lymphocytes. Additionally, MIP-1alpha and MIP-1beta have also been shown to be potent chemoattractants for B cells, eosinophils and dendritic cells. Both human and murine MIP-1alpha and MIP-1beta are active on human and murine hematopoietic cells. Recombinant Human MIP-1alpha is a 7.8 kDa protein containing 70 amino acid residues, including the four highly conserved cysteine residues present in CC chemokines.

Research topic

Chemokines, Cytokines and chemokines and related molecules, Immune Response, Infection and Inflammation, Neural tissue markers, Transplantation

Amino Acid Sequence

ASLAADTPTA CCFSYTSRQI PQNFIADYFE TSSQCSKPGV IFLTKRSRQV CADPSEEWVQ KYVSDLELSA

Source

E. coli

Purity

98%

Biological Activity

Determined by its ability to chemoattract human monocytes using a concentration range of 1.0-10.0 ng/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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