MIP-1beta Rat E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Rat
Other names: Macrophage Inflammatory Protein-1?, CCL4, ACT-2

Cat. No.:	
RBG30067005	(5 µg)
RBG30067020	(20 µg)
RBG30067100	(100 µg)

Description

Both MIP-1a and MIP-1b 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-1a and MIP-1b exert similar effects on monocytes, their effect on lymphocytes differ; with MIP-1a selectively attracting CD8+ lymphocytes, and MIP-1b selectively attracting CD4+ lymphocytes. Additionally, MIP-1a and MIP-1b have also been shown to be potent chemoattractants for B cells, eosinophils and dendritic cells. Both human and murine MIP-1a and MIP-1b are active on human and murine hematopoietic cells. Recombinant Rat MIP-1b is a 7.8 kDa protein containing 69 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

Amino Acid Sequence

`APIGSDPPTS CCFSYTSRKI HRNFVMDYYE TSSLCSQPAV VFLTKKGRQI CADPSEPWVN EYVNDLELN`

Source

E. coli

Purity

98%

Biological Activity

Determined by its ability to chemoattract human monocytes using a concentration range of 0.01-1.0 µg/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. 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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