



## Macrophage Inflammatory protein-1 gamma (CCL9), mouse recombinant (rmMIP-1g)

**Catalog No:** 97538  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** CCL9/10, MRP2, CCF18

### Background

Mouse MIP-1 gamma is 75% identical in its amino acid composition as compared to the rat species. MIP-1 gamma is a CC chemokine localized in murine blood and a widespread range of murine tissues, without having an identified human homolog. MIP-1 gamma signals through the CCR1 receptor. MIP-1 gamma chemoattracts neutrophils and also inhibits colony formation of bone marrow myeloid immature progenitors. MIP-1 gamma has six cysteines including the four highly conserved cysteine residues present in CC chemokines.

### Description

MIP-1 gamma mouse recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 101 amino acids and having a molecular mass of 11.6 kDa. MIP-1 gamma is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

MIP-1 gamma was lyophilized from 1xPBS solution pH 7.4.

### Solubility

It is recommended to reconstitute the lyophilized MIP-1 gamma in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized MIP-1 gamma, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CCL9/10 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Purity

Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

QITHATETKE VQSSLKAQQG LEIEMFHMGE QDSSDCCLSY NSRIQCSRFI GYFPTSGGCT RPLIIFISKR GFQVCANPSD  
RRVQRCIERL EQNSQPRTYK Q

### Activity

Defined by its ability to chemoattract human neutrophils using a concentration range of 0.1 - 10 ng/ml, corresponding to a specific activity of 10,000 - 100,000 IU/mg.

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### Usage

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