

## Recombinant Mouse Macrophage Inflammatory protein-1 gamma (rm CCL9/10 / MIP-1G)

**Synonyms:** MRP2, CCF18.

**Introduction:** Mouse MIP-1G (CCL9/10) is 75% identical in its amino acid composition as compared to the rat species and is a CC chemokine localized in murine blood and a widespread range of murine tissues, without having an identified human homolog. It signals through the CCR1 receptor and chemoattracts neutrophils and also inhibits colony formation of bone marrow myeloid immature progenitors. MIP-1G has six cysteines including the four highly conserved cysteine residues present in CC chemokines.

**Description:** Recombinant mouse MIP-1G produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 101 amino acids and having a molecular mass of 11.6 kDa. The MIP-1G is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*.

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation:** Lyophilized from 1 x PBS solution pH 7.4  
The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

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

**Stability:** Lyophilized MIP-1G 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 RP-HPLC and by SDS-PAGE

**Amino Acid Sequence:** QITHATETKE VQSSLKAQQG LEIEMFHMGF QDSSDCCLSY NSRIQCSRFI GYFPTSGGCT RPIIFISKR GFQVCANPSD RRVQRCIERL EQNSQPRTYK Q.

**Biological 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 10,000-100,000IU/mg.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

|               |       |        |          |
|---------------|-------|--------|----------|
| <i>small</i>  | 5 µg  | Cat.N° | 12345230 |
| <i>medium</i> | 25 µg | Cat.N° | 12335234 |

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