

## MIP 1b Rat

**Description:** MIP-1b Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 69 amino acids and having a molecular mass of 7.8 kDa. The MIP-1b is purified by proprietary chromatographic techniques.

**Catalog #:** CHPS-010

For research use only.

**Synonyms:** C-C motif chemokine 4, Macrophage inflammatory protein 1-beta, MIP-1-beta, Small-inducible cytokine A4, Ccl4, Mip1b, Scya4.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** APIGSDPPTS CCFSYTSRKI HRNFVMDYYE TSSLCSPAV  
VFLTKKGRQI CADPSEPWVN EYVNDLELN.

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

**Formulation:**

Filtered (0.2

**Stability:**

Lyophilized Mouse MIP-1b although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Mouse CCL4 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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

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

**Introduction:**

Macrophage Inflammatory Proteins (MIP) belong to the family of chemotactic cytokines known as chemokines. In humans, there are two major forms, MIP-1 and MIP-1 that are now officially named CCL3 and CCL4 respectively. Both are major factors produced by macrophages after they are stimulated with bacterial endotoxins. They activate human granulocytes (neutrophils, eosinophils and basophils) which can lead to acute neutrophilic inflammation. They also induce the synthesis and release of other pro-inflammatory cytokines such as interleukin 1 (IL-1), IL-6 and TNF- from fibroblasts and macrophages. The genes for CCL3 and CCL4 are both located on human chromosome 17.

**Biological Activity:**

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

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