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**Product Data Sheet**


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Product Name: MIP 1b Mouse

Cat. No.: GP21180

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Small inducible cytokine A4; CCL4; Macrophage inflammatory protein 1-beta; MIP-1- beta; MIP-1-beta(1-69); T-cell activation protein 2; ACT-2; PAT 744; H400; SIS-gamma; Lymphocyte activation gene 1 protein; LAG-1; HC21; G-26 T-lymphocyte-secreted protein; chemokine (C-C motif) ligand 4; ACT2; G-26; LAG1; MIP1B; SCYA2; SCYA4; AT744.1; MGC104418; MGC126025; MGC126026.		
Amino Acid Sequence	APYGADTPTA CCFSYSRKIP RQFIVDYFET SSLCSQPGVI FLTKRNRQIC ADSKETWVQE YITDLELNA.		
Solubility	It is recommended to reconstitute the lyophilized Mouse MIP-1b in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a concentrated (1 mg/ml) solution in water containing no additives.		

**Introduction**

Macrophage Inflammatory Proteins (MIP) belong to the family of chemotactic cytokines known as chemokines. In humans, there are two major forms, MIP-1 $\alpha$  and MIP-1 $\beta$  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- $\alpha$  from fibroblasts and macrophages. The genes for CCL3 and CCL4 are both located on human chromosome 17.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Biological Activity

Mouse MIP-1 beta activity is calculated by the ability to chemoattract Human blood monocytes at 20-100ng/ml corresponding to a Specific Activity of 10,000-50,000IU/mg.

### 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.

### Background

Macrophage Inflammatory Protein-1 beta Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 69 amino acids and having a molecular mass of 7808 Dalton. The MIP-1b is purified by proprietary chromatographic techniques.

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