



## PRODUCT DATA SHEET

**Product:** MIP-4, (recombinant human)

**Cat. No.:** BC-303 (10 µg)

**Synonyms:**

Small inducible cytokine A18 precursor (CCL18)  
Macrophage inflammatory protein 4 (MIP-4)  
Pulmonary and activation-regulated chemokine  
CC chemokine (PARC)  
Alternative macrophage activation-associated  
CC chemokine 1 (AMAC-1)  
Dendritic cell chemokine 1 (DC-CK1)

**Description:**

Recombinant Human Macrophage Inflammatory Protein-4 (MIP-4) produced in *E. Coli* is a single, non-glycosylated, polypeptide chain containing 69 amino acids and having a molecular mass of 7,813 Daltons.

**Amino Acid Sequence:**

The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Gln-Val-Gly-Thr.

**Origin:**

Produced in *E. Coli*.

**Format:**

Sterile filtered white powder. Lyophilized from a 1 mg/mL solution in water containing no additives.

**Purity:**

Greater than 98.0% as determined by RP-HPLC, anion-exchange FPLC, reducing and non-reducing SDS-PAGE Silver Stained gel.  
Dimers and aggregates: Less than 1% as determined by silver-stained SDS-PAGE.

**Endotoxin:**

Less than 0.1 ng/µg (IEU/µg) of Recombinant Human MIP-4.

**Reconstitution:**

Reconstitute in sterile 18MΩ-cm H<sub>2</sub>O not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.

**Biological Activity:**

Recombinant Human MIP-4 is fully biologically active when compared to standard. The activity is calculated by the ability to chemo-attract Human T Lymphocytes at 1.0-10.0 ng/mL.

**Storage:**

Lyophilized Recombinant Human MIP-4, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Recombinant Human MIP-4 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).

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.