PRODUCT DATA SHEET

Product: **MIP-1α, (recombinant mouse)**

Cat. No.: **BC-299 (10 µg)**

Synonyms*:*
Small inducible cytokine A3 precursor (CCL3)
Macrophage inflammatory protein 1-alpha (MIP-1-alpha)
TY-5
SIS-alpha
Heparin-binding chemotaxis protein
L2G25B

Description:
Recombinant Mouse Macrophage Inflammatory Protein-1 alpha (MIP-1 α) produced in E. Coli is a single, non-glycosylated, polypeptide chain containing 69 amino acids and having a molecular mass of 7,820 Daltons.

Amino Acid Sequence:
The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Pro-Tyr-Gly-Ala.

Origin:
Produced in *E. Coli*.

Format:
Sterile filtered white powder. Lyophilized from a 1 mg/mL solution 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 Mouse MIP-1α.

Reconstitution:
Reconstitute the lyophilized Recombinant Mouse MIP-1α in sterile 18MΩ-cm H_2O not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.

Biological Activity:
Recombinant Mouse MIP-1α is fully biologically active when compared to standard. The Activity is calculated by the ability to chemo-attract Balb3/C splenocytes at 1-10 ng/mL.

Storage:
Lyophilized Recombinant Mouse MIP-1α, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MIP-1 alpha 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.