



PRODUCT DATA SHEET

Product: MIP-1 α , (recombinant human)

Cat. No.: BC-298 (20 μ g)

Synonyms:

Small inducible cytokine A3 precursor (CCL3)
Macrophage inflammatory protein 1-alpha
(MIP-1-alpha)
Tonsillar lymphocyte LD78 alpha protein
G0/G1 switch regulatory protein 19-1
G0S19-1 protein
SIS-beta
PAT 464.1

Description:

Recombinant Human MIP-1 α produced in *E. Coli* is a single, non-glycosylated, polypeptide chain containing 70 amino acids and having a molecular mass of 7,820 Daltons. Recombinant Human MIP-1 α is purified by proprietary chromatographic techniques.

Amino Acid Sequence:

The sequence of the first five N-terminal amino acids was determined and was found to be, Ala-Ser-Leu-Ala-Ala.

Origin:

Produced in *E. Coli*.

Format:

Sterile filtered white powder. Lyophilized from a 0.55 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/ μ g (IEU/ μ g) of Recombinant Human MIP-1 α .

Reconstitution:

Reconstitute the lyophilized Recombinant Human MIP-1 α in sterile 18M Ω -cm H₂O not less than 100 μ g/mL, which can then be further diluted to other aqueous solutions.

Biological Activity:

UV spectroscopy at 280 nm using the absorbency value of 0.9 as the extinction coefficient for a 0.1% (1 mg/mL) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).

Storage:

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