

## **Recombinant Mouse Macrophage Inflammatory Protein-3 beta (MIP-3b CCL19)**

Source: E.Coli

Catalog No.: CHM-341

### Description :

Recombinant Mouse MIP-3beta produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 83 amino acids and having a molecular mass of 9216 Dalton. Recombinant MIP-3b is purified by proprietary chromatographic techniques.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.

### Solubility:

It is recommended to reconstitute the lyophilized Mouse MIP-3 b in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

### Stability:

Lyophilized MIP-3beta although stable at room temperature for 3 weeks, should be stored desiccated below -18 °C. Upon reconstitution murine MIP-3b 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 avoid freeze-thaw cycles.

### Purity:

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Anion-exchange FPLC.
- (c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

### Amino acid sequence:

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

### Dimers and aggregates:

Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

### Biological Activity:

Recombinant MIP-3 beta is fully biologically active when compared to standard. The Activity is calculated by the ability to chemoattract Human mature dendritic cells using a concentration of 10-100 ng/ml.

### Endotoxin:

Less than 0.1 ng/µg (IEU/µg) of MIP-3b.

### Protein content:

Protein quantitation was carried out by two independent methods:

1. UV spectroscopy at 280 nm using the absorbency value of 0.91 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).

2. Analysis by RP-HPLC, using a calibrated solution of MIP-3beta as a Reference Standard.

Usage:

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

BioSupply UK Limited  
[www.biosupply.co.uk](http://www.biosupply.co.uk)  
T: 0870 760 5152  
F: 0871 236 4352  
E: [sales@biosupply.co.uk](mailto:sales@biosupply.co.uk)