

BACKGROUND

Macrophage Inflammatory Protein-3 beta (MIP-3 β), also called CCL19, is a chemokine that is expressed in the thymus, lymph nodes and activated bone marrow stromal cells. MIP-3 β signals through the G protein-coupled receptor, CCR7, to regulate normal lymphocyte recirculation and homing of T and B cells to the lymph nodes. Human MIP-3 β shows activity on mouse cells.

Recombinant mouse MIP-3 β is a non-glycosylated protein, consisting of 83 amino acids, with a molecular weight of 9.2 kDa.

Alternative Names:

CCL19, SCYA19, ELC, Exodus-3

Amino Acid Sequence:

GANDAEDCCL SVTQRPIPGN IVKAFRYLLN EDGCRVPAVV
FTTLRGYQLC APPDQPWVDR IIRRLKKSSA KNKGNSTRRS PVS

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant mouse MIP-3 β is lyophilized with no additives.

Stability:

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:

The activity is determined by its ability to induce chemotaxis of human T- cells at 8 – 80 ng/ml.

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

