



Recombinant Human MIP-3 β / CCL19
(Macrophage Inflammatory Protein-3 beta)

Catalog Number: 100-135

Accession Number: P55774

Specifications and Uses:

Alternate Names: CCL19, SCYA19, ELC, Exodus-3

Description:

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 human MIP-3 β is a non-glycosylated protein, containing 77 amino acids, with a molecular weight of 8.8 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

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

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 (typically \geq 98%) determined by:

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically \leq 1 EU/ μ g protein.

Biological Activity:

The activity is determined by the ability to chemoattract human T cells and is typically in the range of 7 - 40 ng/mL.

AA Sequence:

GTNDAEDCCL SVTQKPIPGY IVRNFHYLLI KDGC RVP AVV FTTLRGRQLC APPDQPWVER IIQRLQRTSA
KMKRRSS

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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