CELL APPLICATIONS, INC.

RECOMBINANT PROTEINS
Human Macrophage Inflammatory Protein-3 beta

SIZE	CAT. NO.
20 ug	RP1135-20
100 ug	RP1135-100
1000 ug	RP1135-1000

BACKGROUND

Macrophage Inflammatory Protein-3 beta (MIP-3β), also called CCL19, is a chemokine that is expressed in the thymus, lymph nodes and activated bone marrow stromal cells. MIP-3β 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-3β shows activity on mouse cells.

Recombinant human MIP-3β is a non-glycosylated protein, containing 77 amino acids and having a molecular mass of 8.8 kDa.

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

Amino Acid Sequence:
GTNDAEDCCL SVTQKPIPGY IVRNFHYLLI KDGCRVPAVV
FTTLRGRQLC APPDQPWVER IIQRLQRTSA KMKRRSS

TECHNICAL INFORMATION

Source: *E.coli*

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

Formulation:
Recombinant human MIP-3β 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 calculated by the ability to chemoattract human T cells and is typically in the range of 7 - 40 ng/mL.