Recombinant Human MIP-3α / CCL20

(Macrophage Inflammatory Protein-3 alpha)

Catalog Number: 100-147

Accession Number: Q99731

Specifications and Uses:

Alternate Names: CCL20, Exodus-1, LARC

Description:
Macrophage Inflammatory Protein-3 alpha (MIP-3α), also called CCL20, is expressed in the liver, lungs, lymph nodes and peripheral blood lymphocytes. MIP-3α is strongly up regulated by inflammatory signals, and down regulated by the anti-inflammatory cytokine IL-10. MIP-3α signals through the G protein-coupled receptor, CCR6, and acts as a chemoattractant to lymphocytes and dendritic cells. Recombinant human MIP-3α is a non-glycosylated protein, containing 70 amino acids and a molecular weight of 8.0 kDa.

Source: *E.coli*

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

Formulation and Stability:
Recombinant human MIP-3α 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 ≥ 97%) determined by:
HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:
Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein.

Biological Activity:
The activity is determined by its ability to act as a chemoattractant to human T cells and is typically in the range of 7 - 70 ng/mL.

AA Sequence:
ASNFDCCLGY TDRILHPKFI VGFTRQLANE GCDINAIIFH TKKKLSVCAN PKQTWVKYIV RLLSKKVKNM

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

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