
Product Data Sheet

Product Name: MIP 3b Human

Cat. No.: GP21184

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Small inducible cytokine A19; CCL19; Macrophage inflammatory protein 3 beta; MIP-3- beta; EBI1-ligand chemokine; ELC; Beta chemokine exodus-3; CK beta-11; chemokine (C-C motif) ligand 19; CKb11; MIP3B; MIP-3b; SCYA19; MGC34433.		
Amino Acid Sequence	GTNDAEDCCL SVTQKPIPGY IVRNFHYLLI KDGCRVPAVV FTTLRGRQLC APPDQPWVER IIQRLQRTSA KMKRRSS.		
Solubility	It is recommended to reconstitute the lyophilized Macrophage Inflammatory Protein-3b in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized without any additives.		

Introduction

Chemokine (C-C motif) ligand 19 (CCL19) is a small cytokine belonging to the CC chemokine family that is also known as EBI1 ligand chemokine (ELC) and macrophage inflammatory protein-3-beta (MIP-3-beta). CCL19 is expressed abundantly in thymus and lymph nodes, with moderate levels in trachea and colon and low levels in stomach, small intestine, lung, kidney and spleen. The gene for CCL19 is located on human chromosome 9. This chemokine elicits its effects on its target cells by binding to the chemokine receptor chemokine receptor CCR7. It attracts certain cells of the immune system, including dendritic cells and antigen-engaged B cells.

Biological Activity

The Activity of CCL19 is calculated by the ability to chemoattract Human T cells using a concentration of 7-40ng/ml corresponding to a Specific Activity of 25,000-143,000IU/mg.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Lyophilized MIP-3b although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution CCL19 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 prevent freeze-thaw cycles.

Background

Macrophage Inflammatory Protein-3 beta Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 77 amino acids and having a molecular mass of 8.8kDa. The MIP-3b is purified by proprietary chromatographic techniques.

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