

**MIP-3 $\beta$ /CCL19**  
**Catalog # PVGS1151****Specification**

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**MIP-3 $\beta$ /CCL19 - Product Information**

Primary Accession [O70460](#)  
**Species**  
Mouse

**Sequence**  
Gly26-Ser108

**Purity**  
> 97% as analyzed by SDS-PAGE<br>> 97% as analyzed by HPLC

**Endotoxin Level**  
< 1 EU/  $\mu$ g of protein by LAL method

**Biological Activity**  
Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human mature dendritic cells is in a concentration range of 10.0-100.0 ng/ml.

**Expression System**  
E. coli

**Theoretical Molecular Weight**  
9.2 kDa

Formulation **Lyophilized from a 0.2  $\mu$ m filtered solution in PBS, pH 7.4.**

**Reconstitution**  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.

**Storage & Stability**  
Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

**MIP-3 $\beta$ /CCL19 - Additional Information**

**Gene ID** 24047

**Other Names**  
C-C motif chemokine 19, Epstein-Barr virus-induced molecule 1 ligand chemokine, EBI1 ligand chemokine, ELC, Small-inducible cytokine A19, Ccl19, Elc, Scya19

**Target Background**

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). It binds specifically to the chemokine receptor CCR7 / EBI1 / BLR2. CCL19 is expressed abundantly in thymus, lymph nodes and in activated bone marrow stromal cells. It attracts certain cells of the immune system, including dendritic cells and antigen-engaged B cells, CCR7+ central-memory T-Cells.

**MIP-3 $\beta$ /CCL19 - Protein Information**

**Name** Ccl19

**Synonyms** Elc, Scya19

**Function**

Strongly chemotactic for naive (L-selectinhi) CD4 T-cells and for CD8 T-cells and weakly attractive for resting B-cells and memory (L-selectinlo) CD4 T-cells. May play a role in promoting encounters between recirculating T-cells and dendritic cells and in the migration of activated B-cells into the T-zone of secondary lymphoid tissues. Binds to chemokine receptor CCR7. Binds to atypical chemokine receptor ACKR4 and mediates the recruitment of beta-arrestin (ARRB1/2) to ACKR4.

**Cellular Location**

Secreted.

**Tissue Location**

Highly expressed by dendritic cells in mesenteric and peripheral lymph nodes. Significant expression in spleen (T cell zone or periarteriolar lymphatic sheath) and Peyer patches. Low expression in thymus

**MIP-3 $\beta$ /CCL19 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**MIP-3 $\beta$ /CCL19 - Images**