

# MIP-3 $\beta$ /CCL19

Catalog # PVGS1151

## Product Information

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| <b>Primary Accession Species</b>    | <a href="#">O70460</a><br>Mouse  |
| <b>Sequence</b>                     | Gly26-Ser108   |
| <b>Purity</b>                       | > 97% as analyzed by SDS-PAGE<br>> 97% as analyzed by HPLC   |
| <b>Endotoxin Level</b>              |  |
| <b>Biological Activity</b>          | 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.   |
| <b>Expression System</b>            | E. coli  |
| <b>Theoretical Molecular Weight</b> | 9.2 kDa  |
| <b>Formulation</b>                  | Lyophilized from a 0.2 $\mu$ m filtered solution in PBS, pH 7.4.   |
| <b>Reconstitution</b>               | 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. |
| <b>Storage &amp; Stability</b>      | 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.                               |

## Additional Information

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| <b>Gene ID</b>           | 24047   |
| <b>Other Names</b>       | C-C motif chemokine 19, Epstein-Barr virus-induced molecule 1 ligand chemokine, EBI1 ligand chemokine, ELC, Small-inducible cytokine A19, Ccl19, Elc, Scya19  |
| <b>Target Background</b> | 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. |

## Protein Information

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| <b>Name</b>              | Ccl19  |
| <b>Synonyms</b>          | Elc, Scya19  |
| <b>Function</b>          | 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. |
| <b>Cellular Location</b> | Secreted.  |
| <b>Tissue Location</b>   | 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  |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.