

## Active Recombinant Human Chemokine (C-C Motif) Ligand 19

Cat. No. CCL19-298H Lot. No. (See product label)

### SPECIFICATION

|                            |  |
|----------------------------|--|
| <b>Product Overview</b>    | Recombinant Human MIP-3b produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 77 amino acids and having a molecular mass of 8809 Dalton.   |
| <b>Species</b>             | Human  |
| <b>Source</b>              | E.coli   |
| <b>Description</b>         | This gene is one of several CC cytokine genes clustered on the p-arm of chromosome 9. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory processes.                 |
| <b>Form</b>                | Lyophilized with no additives.   |
| <b>Purity</b>              | Purity Greater than 98% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.   |
| <b>Bio-activity</b>        | Macrophage inflammatory protein 3beta is fully biologically active when compared to standard. The Activity is calculated by the ability to chemoattract Human T cells using a concentration of 7-40 ng/ml. |
| <b>Physical Appearance</b> | Sterile Filtered white lyophilized (freeze-dried) powder.  |
| <b>Solubility</b>          | 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                              |

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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.

**Purity Greater than 98% as determined by**

Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.

**Protein Content determined by**

UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.

**Endotoxin Level**

Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.

**Amino acid sequence**

GTNDAEDCCL SVTQKPIPGY IVRNFHYLLI KDGCRVPAVV FTTLRGRQLC  
APPDQPWVER IIQRLQRTSA KMKRRSS

**Storage**

Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

## GENE INFORMATION

**Gene Name**

CCL19 chemokine (C-C motif) ligand 19 [ Homo sapiens ]

**Official Symbol**

CCL19

**Synonyms**

small inducible cytokine A19; exodus-3; CK beta-11; EBI1-ligand chemokine; CC chemokine ligand 19; beta chemokine exodus-3; small inducible cytokine subfamily A (Cys-Cys), member 19; ELC; CKb11; MIP3B; MIP-3b; SCYA19; MGC34433; CCL19; Macrophage inflammatory protein 3 beta; Short name=MIP-3-beta; EBI1-ligand chemokine; Short name=ELC; Beta chemokine exodus-3; CK beta-11; C-C motif

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|                            |  |
|----------------------------|--|
|                            | chemokine 19; ELC; MIP3B; SCYA19   |
| <b>Gene ID</b>             | <a href="#">6363</a>   |
| <b>mRNA Refseq</b>         | <a href="#">NM_006274</a>  |
| <b>Protein Refseq</b>      | <a href="#">NP_006265</a>  |
| <b>MIM</b>                 | <a href="#">602227</a>   |
| <b>UniProt ID</b>          | <a href="#">Q99731</a>   |
| <b>Chromosome Location</b> | 9p13   |
| <b>Pathway</b>             | Chemokine signaling pathway; Cytokine-cytokine receptor interaction; Signaling by GPCR |
| <b>Function</b>            | chemokine activity   |

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