

## CCL19 (MIP-3beta) Human E. coli

### Product Data Sheet

**Type:** Recombinant

**Source:** E. coli

**Species:** Human

**Cat. No.:**

RD172385050

(0.05 mg)

**Other names:** Beta-chemokine exodus-3, CK beta-11, Epstein-Barr virus-induced molecule 1 ligand chemokine, EB11 ligand chemokine, ELC, Macrophage inflammatory protein 3 beta, MIP-3-beta, Small-inducible cytokine A19, C-C motif chemokine 19

### Description

Total 77 AA. MW: 8,8 kDa (calculated). UniProtKB acc.noQ99731 (22-98) Protein identity confirmed by LC-MS/MS.

### Introduction to the Molecule

Macrophage inflammatory protein-3-beta (MIP3beta) (CCL19), also known as EB11 ligand chemokine (ELC), directs chemotaxis of dendritic cells, and certain B- and T- lymphocytes, but not monocytes or granulocytes. It is constitutively expressed in thymus and lymph nodes and binds specifically to target cells expressing the receptor CCR7. Being a homeostatic chemokine, its primary physiological role is considered to be in the normal recirculation and homing of lymphocyte. However, MIP3beta could also be proinflammatory, and is implicated in the post-HIV infection responses.

### Research topic

Chemokines, Cytokines and chemokines and related molecules

### Amino Acid Sequence

GTNDAEDCCL SVTQKPIPGY IVRNFHYLLI KDGCRVPAVV FTTLRGRQLC APPDQPWVER IIQRLQRTSA KMKRRSS

### Source

E. coli

### Purity

Purity as determined by SDS PAGE: > 97%

### Biological Activity

EC50 = 7.0 nM determined by Calcium Flux with recombinant human CCR7

### Endotoxin

<0.01 EU /1µg

### Reconstitution

Add sterile water to prepare a working stock solution of approximately 0.1 mg/ml and let the lyophilized pellet dissolve completely.

### Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

### Storage, Stability/Shelf Life

Store the lyophilized protein at -20 to -70 °C. Lyophilized protein remains stable until the expiry date when stored at -20 to -70 °C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -20 to -70 °C, the protein is stable for 3 months at -20 to -70 °C under sterile conditions after reconstitution. Reconstituted protein can be stored at 4 °C for 1 month

### Quality Control Test

Quantification is done by A280, using the calculated extinction coefficient (8730 M<sup>-1</sup> cm<sup>-1</sup>).

SDS-PAGE to determine purity of the protein.

LAL TEST to determine endotoxin level.

## Applications

Biologically active protein, Cell culture and/or animal studies, ELISA, Western blotting

## Note

This product is intended for research use only.

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|---|-------------------------------|-------------------------------|---|---|
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