

Recombinant Human Macrophage Inflammatory Protein-3 beta (rh MIP-3 beta / CCL19)

Synonyms: Small inducible cytokine A19, EBI1-ligand chemokine, ELC, Beta chemokine exodus-3, chemokine (C-C motif) ligand 19 ,CK beta-11, CKb11, SCYA19

Introduction: MIP-3beta is a small cytokine belonging to the CC chemokine. It 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 MIP-3beta 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.

Description: Recombinant Human MIP-3beta produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 77 amino acids and having a molecular mass of 8.8 kDa. Rh MIP-3beta is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized without any additives.

Solubility: It is recommended to reconstitute the lyophilized rh MIP-3beta in sterile 18MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh MIP-3beta, although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh MIP-3beta should be 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.

Purity: Greater than 98.0% as determined by RP-HPLC and by SDS-PAGE.

Amino acid Sequence: GTNDAEDCCL SVTQKPIPGY IVRNHFHYLLI KDGC RVPVV FTTLRGRQLC
APPDQPWVER IIQLQRTSA KMKRRSS

Biological Activity: The activity is calculated by the ability to chemo-attract Human T cells using a concentration of 7 - 40 ng/ml, corresponding to a specific activity of 25,000 – 143,000 IU/mg.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	11343240
<i>medium</i>	20 µg	Cat.N°	11343244
<i>large</i>	100 µg	Cat.N°	11343246

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