

Recombinant Mouse Macrophage Inflammatory Protein-3 beta (rm MIP-3beta / CCL19)

Synonyms: Small inducible cytokine A19 (SCYA19), EBI1-Ligand chemokine (ELC), CK beta-11(CKb11), Exodus-3

Introduction: MIP-3beta is a small cytokine belonging to the CC chemokine family. 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 mouse MIP-3beta produced in *E. Coli* is a single, non-glycosylated, polypeptide chain containing 83 amino acids and having a molecular mass of 9216 Dalton. rm MIP-3beta is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

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

Formulation: The protein was lyophilized from 1 mg/ml solution in water containing no additives. The sample size of 1µg contains Trehalose 5% (w/vol) for better recovery

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

Stability: Lyophilized rm MIP-3beta, although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution mouse MIP-1beta 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 95.0% as determined by RP-HPLC and by SDS-PAGE.

Amino acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Gly-Ala-Asn-Asp-Ala.

Biological Activity: The activity is calculated by the ability to chemoattract of human mature dendritic cells using a concentration of 8 -80 ng/ml.

Protein content: Protein quantitation was carried out by two independent methods:

1. UV spectroscopy at 280 nm.
2. Analysis by RP-HPLC, using a calibrated solution of MIP-3beta as a reference standard.

This material is offered for **research 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°	12343240
<i>medium</i>	20 µg	Cat.N°	12343244
<i>large</i>	100 µg	Cat.N°	12343246

ImmunoTools Excellent Quality - Advantageously priced

Gladiolenweg 2; 26169 Friesoythe; Germany
phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, info@immunotools.com
www.immunotools.com