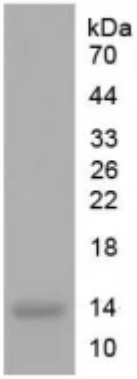
Active Macrophage Inflammatory Protein 3 Beta (MIP3b)

Catalog#:PXH12170

概述（Summary）

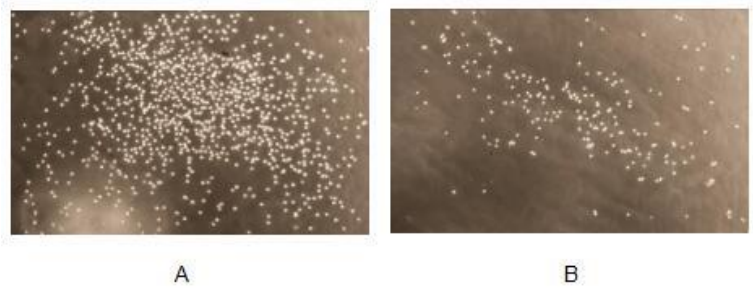
别称（Alternative Names）	CCL19; CKb11; ELC; MIP3-B; SCYA19; Chemokine C-C-Motif Ligand 19; Beta Chemokine Exodus-3; CK Beta-11; EBI1-Ligand Chemokine; Small Inducible Cytokine Subfamily A19
纯度（Purity）	Greater than 97% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Gly22-Ser98】
Accession #	Q99731
表达宿主（Host）	-
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	10.1 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	May play a role not only in inflammatory and immunological responses but also in normal lymphocyte recirculation and homing. May play an important role in trafficking of T-cells in thymus, and T-cell and B-cell migration to secondary lymphoid organs. Binds to chemokine receptor CCR7. Recombinant CCL19 shows potent chemotactic activity for T-cells and B-cells but not for granulocytes and monocytes. Binds to atypical chemokine receptor ACKR4 and mediates the recruitment of beta-arrestin (ARRB1/2) to ACKR4.

电泳图（SDS-PAGE image）

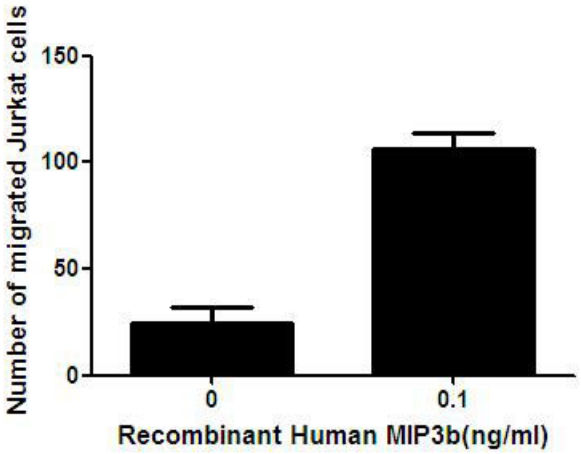


Greater than 97% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）



Macrophage Inflammatory Protein 3 Beta (MIP3b) is a small cytokine belonging to the CC chemokine family that is also known as EBI1 ligand chemokine (ELC) and Chemokine C-C motif ligand 19 (CCL19). 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, CCR7 central-memory T-Cells. Thus, chemotaxis assay used 24-well microchemotaxis system was undertaken to detect the chemotactic effect of recombinant human MIP3b on the Jurkat cell line. Briefly, Jurkat cells were seeded into the upper chambers (150μL cell suspension,106 cells/mL in RPMI 1640 with FBS free) and MIP3b (0.01ng/mL, 0.1ng/mL, 1ng/mL, 10ng/mL, 100ng/mL and 1000ng/mL diluted separately in serum free RPMI 1640) was added in lower chamber with a polycarbonate filter (8μm pore size) used to separate the two compartments. After incubation at 37℃ with 5% CO2 for 3h, the filter was removed, then cells in low chamber were observed by inverted microscope at low magnification (×100) and the number of migrated cells were counted at high magnification (×400) randomly (five fields for each filter). Result shows MIP3b is able to induce migration of Jurkat cells. The migrated Jurkat cells in low chamber at low magnification (×100) were shown in Figure 1. Five fields of each chamber were randomly chosen, and the migrated cells were counted at high magnification (×400). Statistical results were shown in Figure 2. The optimum chemotaxis of recombinant human MIP3b occurs at 0.1-1ng/mL. (A) Jurkat cells were seeded into the upper chambers and serum free RPMI 1640 with 0.1ng/mL MIP3b was added in lower chamber, then cells in lower chamber were observed at low magnification (×100) after incubation for 3h; (B) Jurkat cells were seeded into the upper chambers and serum free RPMI 1640 without MIP3b was added in lower chamber, then cells in lower chamber were observed at low magnification (×100) after incubation for 3h. Figure. The chemotactic effect of recombinant human MIP3b on Jurkat cells. Figure. The chemotactic effect of recombinant human MIP3b on Jurkat cells.



注意事项（Note）

For Research Use Only , Not for Diagnostic Use.