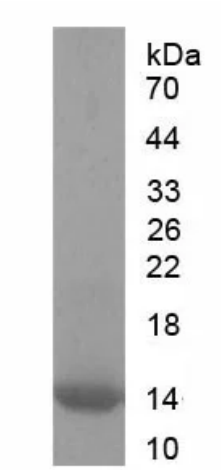
Active Epithelial Neutrophil Activating Peptide 78 (ENA78)

Catalog#:PEM12540

概述（Summary）

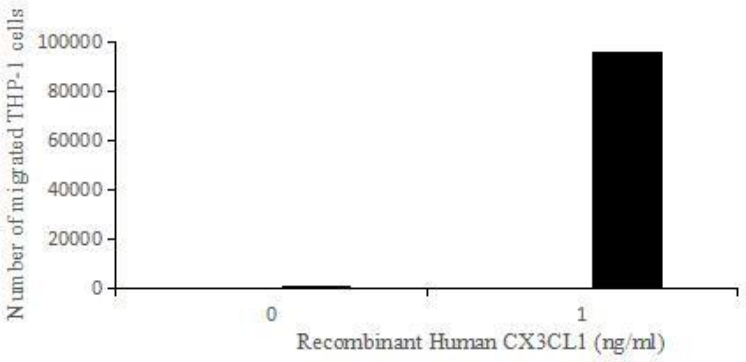
别称（Alternative Names）	CXCL5; SCYB5; Chemokine C-X-C-Motif Ligand 5; Small Inducible Cytokine Subfamily B(Cys-X-Cys),Member 5; Neutrophil-activating peptide ENA-78
纯度（Purity）	Greater than 97% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Ala41-Gln132】
Accession #	P50228
表达宿主（Host）	E.coli
种属（Species）	Mus musculus (Mouse)
预测分子量（Predicted MW）	13.6 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 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 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	May participate in the recruitment of inflammatory cells by injured or infected tissue. GCP-2(1-78) and, more potent, GCP-2(9-78) attract neutrophils and are involved in neutrophil activation.

电泳图（SDS-PAGE image）

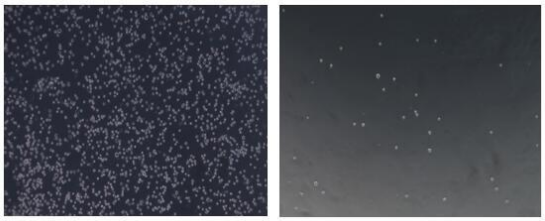


Greater than 97% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）



Epithelial Neutrophil Activating Peptide 78 (ENA-78) is a member of the CXC subfamily of chemokines. Full-length ENA-78 is 114 amino acids (aa) in length with a predicted molecular weight of 12 kDa. ENA-78 is expressed by many immune cells, such as macrophages, eosinophils, as well as non-immune cells including mesothelial cells, and fibroblasts. Soluble ENA-78 potently chemoattracts T cells and monocytes, while the cell-bound chemokine promotes strong adhesion of leukocytes to activated endothelial cells, where it is primarily expressed. Thus, chemotaxis assay used 24-well microchemotaxis system was undertaken to detect the chemotactic effect of ENA-78 on THP-1 the human monocytic cell line. Briefly, THP-1 cells were seeded into the upper chambers (150 ul cell suspension,106 cells/ml in RPMI 1640 with FBS free) and different concentrations of recombinant mouse ENA-78 diluted with serum free RPMI 1640 was added in lower chamber with a polycarbonate filter (8 um pore size) used to separate the two compartments. After incubation at 37 ℃ with 5% CO2 for 1h, the filter was removed, then cells in low chamber were observed by inverted microscope at low magnification (×10) and the number of migrated cells were counted using Fluorescence Activating Cell Sorter. Result shows ENA-78 is able to induce migration of THP-1 cells. The migrated THP-1 cells in low chamber at low magnification (×10) were shown in Figure 1. Statistical results of FACS were shown in Figure 2. The optimum chemotaxis of ENA-78 occurs at 1 ng/ml. Figure 2. The chemotactic effect of ENA-78 on THP-1 cells



A B

Figure 1. The chemotactic effect of ENA-78 on THP-1 cells

(A) Cells in lower chamber after incubation at 37 ℃for 1h in which THP-1 cells were seeded into the upper chambers and 1 ng/ml recombinant mouse ENA-78 was added in lower chamber.

(B) Cells in lower chamber after incubation at 37 ℃for 1h in which THP-1 cells were seeded into the upper chambers and serum free RPMI 1640 without recombinant mouse ENA-78 was added in lower chamber.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.