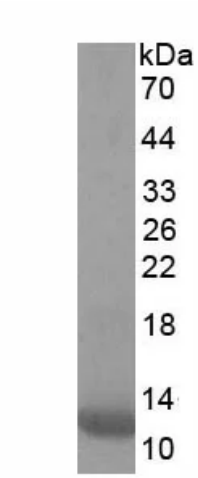
Active Interleukin 8 (IL8)

Catalog#:PHV12146

概述（Summary）

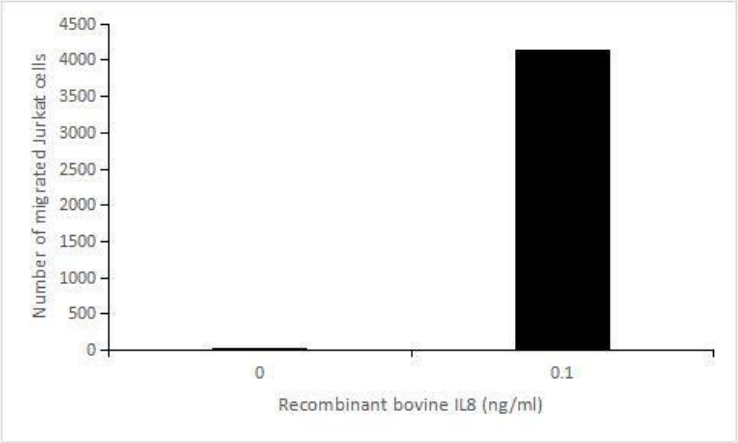
别称（Alternative Names）	CXCL8; AMCF-I; GCP1; K60; LECT; LUCT; LYNAP; MDNCF; MONAP; NAF; NAP1; SCYB8; TSG1; B-ENAP; Neutrophil-Activating Protein 1; Granulocyte Chemotactic Protein 1
纯度（Purity）	Greater than 95% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Ala23-Pro101】
Accession #	P79255
表达宿主（Host）	293F
种属（Species）	Bos taurus; Bovine (Cattle)
预测分子量（Predicted MW）	10.7 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）	IL-8 is a chemotactic factor that attracts neutrophils, basophils, and T-cells, but not monocytes. It is also involved in neutrophil activation. It is released from several cell types in response to an inflammatory stimulus.

电泳图（SDS-PAGE image）



Greater than 95% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）



Interleukin 8 (IL8 or chemokine (C-X-C motif) ligand 8, CXCL8) is a chemokine produced by macrophages and other cell types such as epithelial cells, airway smooth muscle cells and endothelial cells. Thus, chemotaxis assay used 24-well microchemotaxis system was undertaken to detect the chemotactic effect of IL8 on the human T-lymphocyte leukemia cell line Jurkat. Briefly, Jurkat cells were seeded into the upper chambers (150 ul cell suspension, 106 cells/ml in RPMI 1640 without FBS) and different concentrations of recombinant bovine IL8 diluted in 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 60 min, 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 IL8 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 IL8 occurs at 0.01-0.1 ng/ml. Figure 2.The chemotactic effect of recombinant bovine IL8 on Jurkat cells.



A B

Figure 1.The chemotactic effect of IL8 on Jurkat cells

(A) Jurkat cells were seeded into the upper chambers and serum free RPMI 1640 with 0.1 ng/ml recombinant bovine IL8 was added in lower chamber, then cells in lower chamber were observed at low magnification (×100) after incubation for 60 min;

(B) Jurkat cells were seeded into the upper chambers and serum free RPMI 1640 without recombinant bovine IL8 was added in lower chamber, then cells in lower chamber were observed at low magnification (×100) after incubation for 60 min.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.