

Active Recombinant Pig IL8 protein, His-tagged

Cat. No. IL8-601P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Pig IL8 protein(P26894)(26~103 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Pig
Source	E.coli
ProteinLength	26-103 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	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 (100ul cell suspension, 10^6 cells/ml in RPMI 1640 with FBS free) and recombinant pig IL8 (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 (8um pore size) used to separate the two compartments. After incubation at 37°C with 5% CO ₂ for 1h, 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

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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($\times 100$) were shown. Five fields of each chamber were randomly chosen, and the migrated cells were counted at high magnification($\times 400$). The optimum chemotaxis of IL8 occurs at 1~10ng/ml.

Molecular Mass	13.1kDa
Endotoxin	<1.0EU per 1 μ g (determined by the LAL method).
Purity	> 97% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	IL8 interleukin 8 [<i>Sus scrofa</i>]
Official Symbol	IL8
Synonyms	IL8; interleukin 8; interleukin-8; IL-8; C-X-C motif chemokine 8; alveolar macrophage chemotactic factor I; alveolar macrophage-derived chemotactic factor-I; CXCL8; AMCF-I;
Gene ID	396880
mRNA Refseq	NM_213867

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Protein Refseq

NP_999032

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