

Active Recombinant Bovine IL8 protein, His-tagged

Cat. No. IL8-3225B Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Bovine IL8 protein(P79255)(23~101 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Bovine
Source	HEK293
ProteinLength	23-101 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 (150 ul cell suspension, 10 ⁶ 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°C with 5% CO ₂ 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

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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 0.01-0.1 ng/ml.

Molecular Mass 10.7kDa

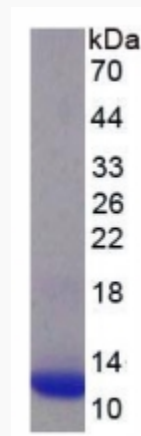
Endotoxin <1.0EU per 1 μ g (determined by the LAL method).

Purity > 95% 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.

SDS-PAGE



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