

Active Recombinant Rabbit CXCL8 protein, His-tagged

Cat. No. CXCL8-887R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rabbit CXCL8 protein(P19874)(23~101 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Rabbit
Source	E.coli
ProteinLength	23-101 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 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 IL8 (0.1ng/mL, 1ng/mL and 10ng/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 lower chamber were observed by inverted microscope at low magnification (×100) and the number of migrated cells were counted at high magnification (×400) randomly.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

(five fields for each filter). Result shows IL8 is able to induce migration of Jurkat cells. Themigrated Jurkat cells in low chamber at low magnification ($\times 100$) were shown. Five fields of each chamber were randomly chosen, and the migratedcells were counted at high magnification ($\times 400$). The optimum chemotax is of IL8 occurs at 1~10ng/mL.

Molecular Mass	12.5kDa
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.

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