

Rabbit CXCL8 / IL8 protein, His tag (active)

Cat. No. GTX00339-pro

Application	Functional Assay
Species	Rabbit

Package
10 µg

APPLICATION

Application Note

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 (100 µl cell suspension, 10⁶ cells/ml in RPMI-1640 with FBS free) and IL8 (0.1 ng/ml, 1 ng/ml and 10 ng/ml diluted separately in serum free RPMI-1640) was added in lower chamber with a polycarbonate filter (8µm pore size) used to separate the two compartments. After incubation at 37°C with 5% CO₂ 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 fields for each filter). The migrated Jurkat cells in low chamber at low magnification (×100) randomly, and the migrated cells were counted at high magnification (×400). IL8 is able to induce migration of Jurkat cells, and the optimum chemotaxis of IL8 occurs at 1~10 ng/ml.

Observed MW 14 kDa.

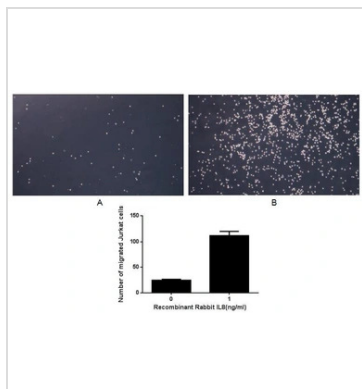
PROPERTIES

Form	Lyophilized powder
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.
Preservative	ProClin 300
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
Region/Sequence	N-terminal His-Tag; Ala23~Ser101 (NP_001075762.1)
Expression System	E. coli
Purity	> 95%
Endotoxin	< 1 EU/µg
Conjugation	Unconjugated
Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



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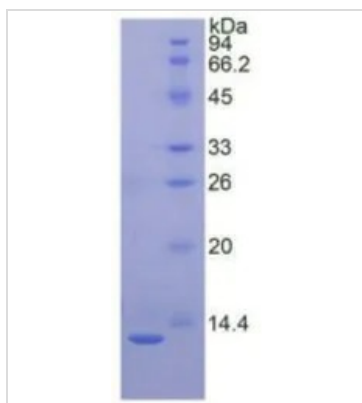
DATA IMAGES

GTx00339-pro Functional Assay Image

The chemotactic effect of GTX00339-pro Rabbit CXCL8 / IL8 protein (active).

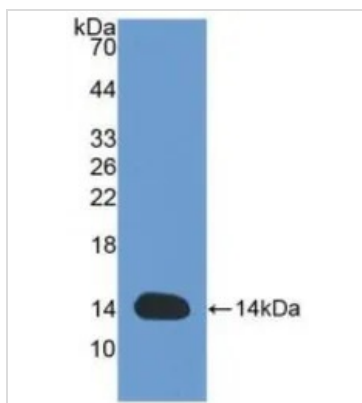
Upper: (A) Jurkat cells were seeded into the upper chambers and serum free RPMI-1640 without IL8 was added in lower chamber, then cells in lower chamber were observed at low magnification ($\times 100$) after incubation for 1hr.

(B) Jurkat cells were seeded into the upper chambers and serum free RPMI-1640 with 1 ng/ml IL8 was added in lower chamber, then cells in lower chamber were observed at low magnification ($\times 100$) after incubation for 1hr.

Lower: The number of migrated cells were counted at high magnification ($\times 400$) randomly (five fields for each filter).


GTx00339-pro Image

SDS-PAGE analysis of GTX00339-pro Rabbit CXCL8 / IL8 protein (active).


GTx00339-pro Image

WB analysis of GTX00339-pro Rabbit CXCL8 / IL8 protein (active).



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