

Active Recombinant Rat Cx3cl1 protein, His-tagged

Cat. No. Cx3cl1-880R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Cx3cl1 protein(O55145)(83~328 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	83-328 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	Chemokine C-X3-C-Motif Ligand 1 (CX3CL1) also known as fractalkine is a large cytokine protein of 373 amino acids, it contains multiple domains and is the only known member of the CX3C chemokine family. Soluble CX3CL1 potently chemoattracts T cells and monocytes, while the cell-bound chemokine promotes strong adhesion of leukocytes to activated endothelial cells, where it is primarily expressed. Thus, chemotaxis assay used 24-well microchemotaxis system was undertaken to detect the chemotactic effect of CX3CL1 on the human monocytic cell line THP-1. Briefly, THP-1 cells were seeded into the upper chambers (150uL cell suspension, 10 ⁶ cells/mL in RPMI 1640 with FBS free) and SLC (15.625ng/mL, 31.25ng/mL, 62.5ng/mL and 125ng/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

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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 CX3CL1 is able to induce migration of THP-1 cells. The migrated Jurkat cells in low chamber at low magnification (×100) were shown. Five fields of each chamber were randomly chosen, and the migrated cells were counted at high magnification (×400). The optimum chemotaxis of CX3CL1 occurs at 15.625-125ng/mL.

Molecular Mass	26.9kDa
Endotoxin	<1.0EU per 1µg (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 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Cx3cl1 chemokine (C-X3-C motif) ligand 1 [Rattus norvegicus]
Official Symbol	Cx3cl1
Synonyms	CX3CL1; chemokine (C-X3-C motif) ligand 1; fractalkine; neurotactin; C-X3-C motif chemokine 1; small-inducible cytokine D1; CX3C membrane-anchored chemokine; small inducible cytokine subfamily D, 1; Cx3c; Scyd1;
Gene ID	89808

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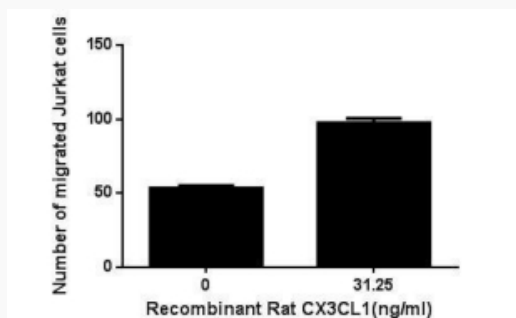
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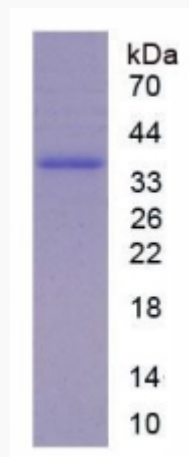
mRNA Refseq NM_134455

Protein Refseq NP_604450

Activity



SDS-PAGE



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