

## Active Recombinant Human CX3CL1 protein, His-tagged

Cat. No. CX3CL1-765H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active Recombinant Human CX3CL1 protein(P78423)(81~336 aa), fused with N-terminal His tag, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	81-336 aa
<b>Form</b>	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Bio-activity</b>	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 CX3CL1 (0.1ng/ml, 0.01ng/ml, 0.001ng/ml, 0.0001 and 0.00001ng/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 <sub>2</sub> for 1h,

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the filter was removed, then cells in low chamber were observed by inverted microscope at low magnification (×10) and the number of migrated cells were counted using Fluorescence Activating Cell Sorter. Result shows CX3CL1 is able to induce migration of THP-1 cells. The migrated THP-1 cells in low chamber at low magnification (×10) were shown. Statistical results of FACS were shown. The optimum chemotaxis of CX3CL1 occurs at 0.001-0.00001ng/ml.

<b>Molecular Mass</b>	28.5kDa
<b>Endotoxin</b>	<1.0EU per 1µg (determined by the LAL method).
<b>Purity</b>	> 95% as determined by SDS-PAGE.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
<b>Reconstitution</b>	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	CX3CL1 chemokine (C-X3-C motif) ligand 1 [ Homo sapiens ]
<b>Official Symbol</b>	CX3CL1
<b>Synonyms</b>	CX3CL1; chemokine (C-X3-C motif) ligand 1; SCYD1, small inducible cytokine subfamily D (Cys X3 Cys), member 1 (fractalkine, neurotactin); fractalkine; ABCD 3; C3Xkine; CXC3; CXC3C; neurotactin; NTN; C-X3-C motif chemokine 1; small-inducible cytokine D1; CX3C membrane-anchored chemokine; small inducible cytokine subfamily D (Cys-X3-Cys), member-1; small inducible cytokine subfamily D (Cys-X3-Cys), member 1 (fractalkine, neurotactin); NTT; SCYD1; ABCD-3;

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**Gene ID** 6376

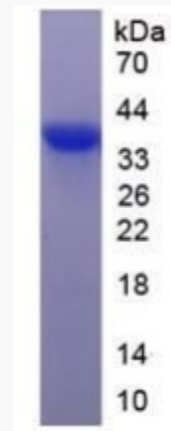
**mRNA Refseq** NM\_002996

**Protein Refseq** NP\_002987

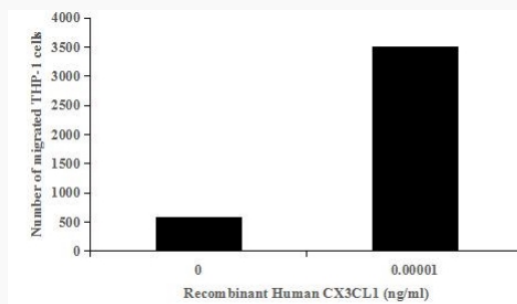
**MIM** 601880

**UniProt ID** P78423

**SDS-PAGE**



**Activity**



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