

# Human CX3CL1 protein, His tag (active)

# Cat. No. GTX00214-pro

Application	Functional Assay	Package 10 μg
Species	Human	. 1 3

#### APPLICATION

#### **Application Note**

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 (150  $\mu$ l cell suspension, 1x10<sup>6</sup> cells/ml in RPMI-1640 with FBS free) and SLC (1 ng/ml, 10 ng/ml, 100 ng/ml and 1000 ng/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, 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. And CX3CL1 is able to induce migration of THP-1 cells.

**Observed MW** 44 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; Gln25~Pro332 (NP_002987.1)	
Expression System	E. coli	
Purity	> 90%	
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.	



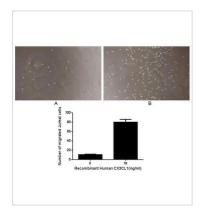
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### DATA IMAGES



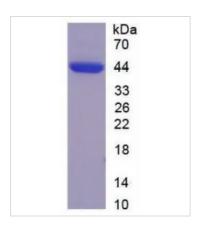
### **GTX00214-pro Functional Assay Image**

The chemotactic effect of GTX00214-pro Human CX3CL1 protein (active).

Upper: (A) THP-1 cells were seeded into the upper chambers and serum free RPMI-1640 without CX3CL1 was added in lower chamber, then cells in lower chamber were observed at low magnification (×100) after incubation for 1hr.

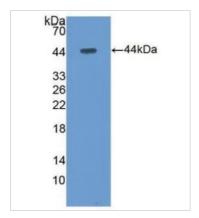
(B) THP-1 cells were seeded into the upper chambers and serum free RPMI-1640 with 10 ng/ml CX3CL1 was added in lower chamber, then cells in lower chamber were observed at low magnification (×100) after incubation for 1hr.

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



## GTX00214-pro Image

SDS-PAGE analysis of GTX00214-pro Human CX3CL1 protein (active).



#### GTX00214-pro Image

WB analysis of GTX00214-pro Human CX3CL1 protein (active).



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