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## Product Datasheet

### Rat CX3CL1 protein, His tag (active), Unconjugated GTX00363-PRO

Article Name	Rat CX3CL1 protein, His tag (active), Unconjugated
Biozol Catalog Number	GTX00363-PRO
Supplier Catalog Number	GTX00363-pro
Alternative Catalog Number	GTX00363-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Rat
Conjugation	Unconjugated
NCBI	<a href="#">89808</a>
UniProt	<a href="#">O55145</a>
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, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Gln83~Pro328 (NP_604450.1)

#### Application Notes

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 µl cell suspension, 1x10<sup>6</sup> cells/ml in RPMI-1640 with FBS free) and SLC (15. 625 ng/ml, 31. 25 ng/ml, 62. 5 ng/ml and 125 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 37C 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.