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## Product Datasheet

### Human CCL21 protein, His tag (active), Unconjugated GTX00072-PRO

|                            |   |
|----------------------------|---|
| Article Name               | Human CCL21 protein, His tag (active), Unconjugated   |
| Biozol Catalog Number      | GTX00072-PRO  |
| Supplier Catalog Number    | GTX00072-pro  |
| Alternative Catalog Number | GTX00072-PRO-10   |
| Manufacturer               | GeneTex   |
| Category                   | Proteine/Peptide  |
| Application                | FA  |
| Species Reactivity         | Human   |
| Conjugation                | Unconjugated  |
| NCBI                       | <a href="#">6366</a>  |
| UniProt                    | <a href="#">Q6ICR7</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, Ser24~Pro134 (NP_002980.1)  |

## Application Notes

Secondary Lymphoid-tissue Chemokine (SLC) is a recently identified CC chemokine that is constitutively expressed in various lymphoid tissues and is a potent and specific chemoattractant for lymphocytes. Thus, chemotaxis assay used 24-well microchemotaxis system was undertaken to detect the chemotactic effect of SLC on the human T-lymphocyte leukemia cell line Jurkat. Briefly, Jurkat cells were seeded into the upper chambers (100  $\mu$ l cell suspension, 1x10<sup>6</sup> cells/ml in RPMI-1640 with FBS free) and SLC (1 ng/ml, 15 ng/ml and 150 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 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 (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). SLC is able to induce migration of Jurkat cells, and the optimum chemotaxis of SLC occurs at 15-150 ng/ml.