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# TECK/CCL25

Catalog # PVGS1081

## Product Information

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| **Primary Accession** | O15444 |
| **Species** | Human |
| **Sequence** | Gln24-Leu150, expressed with an N-terminal Met |
| **Purity** | > 97% as analyzed by SDS-PAGE<br>> 97% as analyzed by HPLC |
| **Endotoxin Level** | |
| **Biological Activity** | Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration range of 1.0-10.0 ng/ml. |
| **Expression System** | E. coli |
| **Theoretical Molecular Weight** | 14.3 kDa |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in 20 mM PB, pH 7.4, 150 mM NaCl. |
| **Reconstitution** | It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. |
| **Storage & Stability** | Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles. |

## Additional Information

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| **Gene ID** | 6370 |
| **Other Names** | C-C motif chemokine 25, Chemokine TECK, Small-inducible cytokine A25, Thymus-expressed chemokine, CCL25, SCYA25, TECK |
| **Target Background** | CCL25 (thymus expressed chemokine) is a novel CC chemokine that is distantly related (approximately 20% amino acid sequence identity) to other CC chemokines. Mouse CCL25 cDNA has also been cloned and shown to encode a 144 aa protein that exhibits 49% aa sequence identity to human CCL25. The expresssion of human and mouse CCL25 was shown to be highly restricted to the thymus and small intestine. Although dendritic cells have been demonstrated to be the source of CCL25 production in the thymus, dendritic cells derived from bone marrow do not express CCL25. |

## Protein Information

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| **Name** | CCL25 |
| **Synonyms** | SCYA25, TECK |
| **Function** | Potentially involved in T-cell development. Recombinant protein shows chemotactic activity on thymocytes, macrophages, THP-1 cells, and dendritics cells but is inactive on peripheral blood lymphocytes and neutrophils. Binds to CCR9. Isoform 2 is an antagonist of isoform 1. Binds to atypical chemokine receptor ACKR4 and mediates the recruitment of beta-arrestin (ARRB1/2) to ACKR4. |
| **Cellular Location** | Secreted. |
| **Tissue Location** | Specifically expressed by thymic dendritic cells. High levels in thymus and small intestine |