Recombinant Human Thymus Expressed Chemokine (CCL25 / rh TECK)

Synonyms: Small-inducible cytokine A25, SCYA25, Ckb15.

Introduction: TECK is a novel CC chemokine, which is distantly related (about 20% amino acid sequence identity) to other CC chemokines. The mouse TECK cDNA has also been cloned and shown to encode a 144 a.a. protein, which exhibits 49% a.a. sequence identity to the human TECK. Human and mouse TECK expression was shown to be greatly restricted to the thymus and small intestine. While dendritic cells are identified as the source of TECK production in the thymus, dendritic cells derived from bone marrow do not express TECK. TECK signals through the CCR9 receptor and is possibly involved in T-cell development. Recombinant human and mouse TECK were shown to be chemotactic for activated macrophages, dendritic cells and thymocytes. The recombinant protein demonstrates chemotactic activity on thymocytes, macrophages, THP-1 cells and dendritic cells, but is inactive on peripheral blood lymphocytes and neutrophils.

Description: Recombinant human TECK is a single polypeptide chain containing 127 amino acids and having a molecular mass of approximately 14.2 kDa.
Recombinant TECK is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a concentrated solution in 20 mM PB, pH 7.4 and 150 mM NaCl.
The aliquots/samples of 1µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized TECK in sterile H_2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized TECK although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TECK should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Please prevent freeze-thaw cycles.

Purity: Greater than 97.0% as determined by RP-HPLC and by SDS-PAGE

Amino Acid Sequence: QGVFEDCCLA YHYPIGWAVL RRAWTYRIQE VSGSCNLPAA IFYLPKRHRK VCGNPKSREV QRAMKLLDAR NKVFAKLHHN MQTFQAGPHA VKKLSSGNSK LSSSKFSNPI SSSRKNVSLL ISANSGL.

Biological Activity: Determined by its ability to chemoattract human monocytes using a concentration range of 1.0 - 10.0 ng/ml corresponding to a Specific Activity of 100.000 – 1.000.000IU/mg.

This material is offered for **research use only.** Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

small	5 µg	Cat.N°	11344370
medium	20 µg	Cat.N°	11344374

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