

TECK/CCL25, Human

Cat. No.: Z02847-1

Size: 1.0 mg

Synonyms: TECK/CCL25, Human;

Description:

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 expression 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. Recombinant human and mouse CCL25 have been shown to be chemotactic for activated macrophages, dendritic cells and thymocytes. CCL25 signals through the CCR9 receptor.

Amino Acid Sequence:

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00001 MQGVFEDCCL AYHYPIGWAV LRRAWTYRIQ EVSGSCNLPA
00041 AIFYLPKRHR KVCGNPKSRE VQRAMKLLDA RNKVFALHHL
00081 NTQTFQAGPH AVKKLSSGNS KLSSSKFSNP ISSSKRNVSLL
00121 LISANSGL
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Source: *E. coli*

Species: Human

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 ng/ml.

Molecular Weight: Approximately 14.3 kDa, a single, non-glycosylated polypeptide chain containing 128 amino acids.

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.

Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Purity: > 97 % by SDS-PAGE and HPLC analyses.

Endotoxin Level: Less than 1 EU/µg of rHuTECK/CCL25 as determined by LAL method.

Storage: This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.