DATASHEET
Version 20181206

TARC/CCL17, Mouse

Cat. No.: Z02954-20

Size: 20.0 ug

Synonyms: C-C motif chemokine 17, Small-inducible cytokine A17, Thymus and activation-regulated chemokine, CC chemokine TARC, ABCD-2, SCYA17, A-152E5.3, MGC138271, MGC138273.

Description:

Thymus and activation regulated chemokine (TARC) is a novel CC chemokine, also called CCL17, recently identified using a signal sequence trap method. CCL17 cDNA encodes a highly basic 94 amino acid (a.a.) residue precursor protein with a 23 a.a. residue signal peptide that is cleaved to generate the 71 a.a. residue mature secreted protein. Among CC chemokine family members, CCL17 has approximately 24 - 29% amino acid sequence identity with RANTES, MIP-1α, MIP-1β, MCP-1, MCP-2, MCP-3 and I-309. CCL17 is constitutively expressed in thymus, and at a lower level in lung, colon, and small intestine. CCL17 is also transiently expressed in stimulated peripheral blood mononuclear cells. Recombinant CCL17 has been shown to be chemotactic for T cell lines but not monocytes or neutrophils. CCL17 was recently identified to be a specific functional ligand for CCR-4, a receptor that is selectively expressed on T cells.

Amino Acid Sequence:

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00001 ARATNVGREC CLDYFKGAIP IRKLVSWYKT SVECSRDAIV
00041 FLTVQGKLIC ADPKDKHVKK AIRLVKNPRP
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Source: *E. coli*

Species: Mouse

Biological Activity: Fully biologically active when compared to standard. The biologically active determined by a chemotaxis bioassay using human T-lymphocytes is in a concentration range of 1.0-10 ng/ml.

Molecular Weight: Approximately 7.9 kDa, a single non-glycosylated polypeptide chain containing 70 amino acids.

Formulation: Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.

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 rMuTARC/CCL17 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.

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