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## Product Data Sheet

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Product Name: TARC Human  
 Cat. No.: GP21221  
 Batch No.: 1

### Product Data

Purity >98% Source Escherichia Coli.

Physical Appearance solid Shipping Condition Shipped at Room temp.

Synonyms C-C motif chemokine 17; Small-inducible cytokine A17; Thymus and activation-regulated chemokine; CC chemokine TARC; ABCD-2; CCL17; CCL-17; SCYA17; TARC; A-152E5.3; MGC138271; MGC138273.

Amino Acid Sequence ARGTNVGRECCLEYFKGAIPLRKLKTWYQTSSEDCSRDAIVFTVQGRAICSDPNNK RVKNAVKYLQSLERS.

Solubility It is recommended to reconstitute the lyophilized CCL17 in sterile 18MΩ-cm H<sub>2</sub>O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Formulation The protein was lyophilized from a concentrated (0.5mg/ml) solution containing 20mM PBS & 150mM NaCl pH-7.4.

### Introduction

TARC cDNA encodes a 94 amino acid precursor protein with a 23 amino acid residue signal peptide that is cleaved off to generate the 71 amino acid residue mature secreted protein. Along with CC chemokine family members, CCL-17 has approximately 24-29% amino acid sequence identity with RANTES, MIP-1a, MIP-1b, MCP-1, MCP-2, MCP-3 and I-309. TARC is expressed in thymus, and at a lower level in the lung, colon, and small intestine. TARC is in addition transiently expressed in stimulated peripheral blood mononuclear cells. Recombinant TARC has been shown to be chemotactic for T cell lines but not monocytes or neutrophils. CCL-17 was recently identified to be a specific functional ligand for CCR4, a receptor that is selectively expressed on T cells. CCL17 is one of quite a few Cys-Cys (CC) cytokine genes clustered on the q arm of chromosome 16. CCL17 shows chemotactic activity for T lymphocytes, but not monocytes or granulocytes. CCL17 binds to chemokine receptors CCR4 and CCR8. This chemokine plays important roles in T cell development in thymus as well as in trafficking and

**Caution: Product has not been fully validated for medical applications. For research use only.**

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activation of mature T cells.

### Biological Activity

Determined by its ability to chemoattract human T-Lymphocytes using a concentration range of 1.0-10.0 ng/ml corresponding to a Specific Activity of 100,000-1,000,000IU/mg.

### Stability

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

### Background

CCL17 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 71 amino acids and having a molecular mass of 8 kDa. The TARC is purified by proprietary chromatographic techniques.

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