

# Recombinant Human Chemokine (C-C motif) ligand 17, His-tagged

**Cat. No.** CCL17-269H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | TARC Human Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 92 amino acids (24-94 a.a.) and having a molecular mass of 10.3 kDa. The TARC is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | Human   |
| <b>ProteinLength</b>    | 24-94 a.a.  |
| <b>Description</b>      | 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-1?, MIP-1?, 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 |

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receptors CCR4 and CCR8. This chemokine plays important roles in T cell development in thymus as well as in trafficking and activation of mature T cells.

**Form** The TARC protein contains 1xPBS (pH7.4) and 10% glycerol.

**Purity** Greater than 95% as determined by Analysis by SDS-PAGE.

**Physical Appearance** Sterile filtered colorless solution.

**Amino acid sequence** MGSSHHHHHH SSGLVPRGSH MARGTNVGRE CCLEYFKGAI PLRKLKTWYQ TSEDCSRDAI VFVTVQGRAI CSDPNNKRVK NAVKYLQSLE RS.

**Storage** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Pathways** Cytokine-cytokine receptor interaction

## GENE INFORMATION

**Gene Name** [CCL17 chemokine \(C-C motif\) ligand 17 \[ Homo sapiens \]](#)

**Official Symbol** CCL17

**Synonyms** chemokine (C-C motif) ligand 17; TARC; ABCD-2; SCYA17; A-152E5.3; MGC138271; MGC138273; CCL17; small inducible cytokine A17; T cell-directed CC chemokine; thymus and activation-regulated chemokine; small inducible cytokine subfamily A (Cys-Cys), member 17; CC chemokine TARC; OTTHUMP00000164673

**Gene ID** [6361](#)

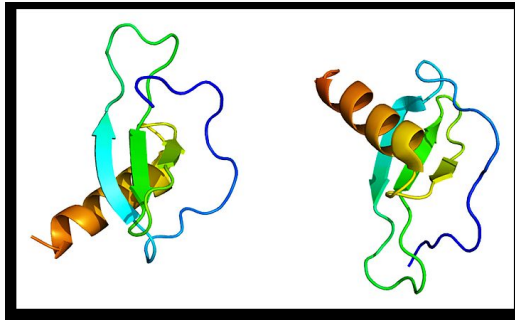
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|                     |                    |
|---------------------|--------------------|
| mRNA Refseq         | NM_002987          |
| Protein Refseq      | NP_002978          |
| MIM                 | 601520             |
| UniProt ID          | Q92583             |
| Chromosome Location | 16q13              |
| Function            | chemokine activity |

PDB rendering based on 1nr2.



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