

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

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <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>Protein Length</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 $\beta$ , MIP-1 $\alpha$ , 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.                                                                            |
| <b>Form</b>                | The TARC protein contains 1xPBS (pH7.4) and 10% glycerol.                                                                                                                                                                            |
| <b>Purity</b>              | Greater than 95% as determined by Analysis by SDS-PAGE.                                                                                                                                                                              |
| <b>Physical Appearance</b> | Sterile filtered colorless solution.                                                                                                                                                                                                 |
| <b>Amino acid sequence</b> | MGSSHHHHHH SSGLVPRGSH MARGTNVGRE CCLEYFKGAI PLRKLKTWYQ<br>TSEDCSRDAI VFVTVQGRAI CSDPNNKRVK NAVKYLQSLE RS.                                                                                                                            |
| <b>Storage</b>             | 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. |
| <b>Pathways</b>            | Cytokine-cytokine receptor interaction                                                                                                                                                                                               |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CCL17 chemokine (C-C motif) ligand 17 [ Homo sapiens ]                                                                                                                                                                                                                                                 |
| <b>Official Symbol</b> | CCL17                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>        | 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 |
| <b>Gene ID</b>         | 6361                                                                                                                                                                                                                                                                                                   |

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

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