

32-2002: rTARC Recombinant Protein

Alternative Name : Thymus and activation-regulated chemokine,CCL17,SCYA17,TARC.

Description

Source : Escherichia Coli. TARC Rat Recombinant produced in E.Coli is a non-glycosylated, polypeptide chain containing 70 amino acids and having a molecular mass of 8.1kDa. The TARC Rat is purified by proprietary chromatographic techniques. 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 activation of mature T cells.

Product Info

Amount :	20 µg
Purification :	Greater than 97.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The protein was lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH7.4.
Storage condition :	Lyophilized TARC although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution TARC should be stored at 4C between 2-7 days and for future use below -18C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Amino Acid :	ARATNVGREC CLDYFKGAIP IRKLVTFWRT SVECPKDAIV FETVQGR LIC TDPKDKHVKK AIRHLKNQRL.

Application Note

It is recommended to reconstitute the lyophilized TARC in sterile 18M-cm H2O not less than 100Åµg/ml, which can then be further diluted to other aqueous solutions. Determined by its ability to chemoattract human T-Lymphocytes using a concentration range of 1.0-10.0 ng/ml.