
Product Data Sheet

Product Name: TARC Rat
 Cat. No.: GP21224
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Thymus and activation-regulated chemokine; CCL17; SCYA17; TARC.		
Amino Acid Sequence	ARATNVGREC CLDYFKGAIP IRKLVTFWRT SVECPKDAIV FETVQGR LIC TDPKDKHVKK AIRHLKNQRL.		
Solubility	It is recommended to reconstitute the lyophilized TARC in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a 0.2µm filtered concentrated solution in 16 ⁺ PBS, pH7.4.		

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 activation of mature T cells.

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

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Biological Activity

Determined by its ability to chemoattract human T-Lymphocytes using a concentration range of 1.0-10.0 ng/ml.

Stability

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.

Background

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.

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