9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

TARC Rat

Thymus and Activation Regulated Chemokine (CCL17) Rat Recombinant
CHK0173

Product Overview

Name	TARC Rat
Description	
Thymus and Activation Regulated Chemokine (CCL17) Rat Recombinant	
Accession (Primary)	Q9ERE0
Synonyms	
Thymus and activation-regulated chemokine, CCL17, SCYA17, TARC.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a 0.2 μm filtered concentrated solution in 1×PBS, pH7.4.	
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). Ple ase prevent freeze-thaw cycles.	
Purity	

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Greater than 97.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

ARATNVGREC CLDYFKGAIP IRKLVTWFRT SVECPKDAIV FETVQGRLIC TDPKDKHVKK AIRHLKNQRL.

Biological Activity

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

Solubility

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

Precautions

TARC Rat is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9ERE0)