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TARC Mouse

Thymus and Activation Regulated Chemokine (CCL17) Mouse Recombinant
CHK0172

Product Overview

Name	TARC Mouse
Description	
Thymus and Activation Regulated Chemokine (CCL17) Mouse Recombinant	
Accession (Primary)	Q9QZA7
Synonyms	
C-C motif chemokine 17, Small-inducible cytokine A17, Thymus and activation-regulated chemokine, CC chemokine TARC, ABCD-2, CCL17, CCL-17, SCYA17, TARC, A-152E5.3, MGC138271, MGC138273.	
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.	

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Purity

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

Amino acid sequence

ARATNVGREC CLDYFKGAIP IRKLVSWYKT SVECSRDAIV FLTVQGKLIC ADPKDKHVKK AIRLVKNPRP.

Biological Activity

The ED50 as determined by its ability to chemoattract BaF3 mouse pro-B cells transfected with human CCR4 is typically 2-10 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 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9QZA7)