
Product Data Sheet

Product Name: TARC Mouse
 Cat. No.: GP21223
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
Amino Acid Sequence	ARATNVGREC CLDYFKGAIP IRKLVSWYKT SVECSRDAIV FLTVQGKLIC ADPKDKHVKK AIRLVKNPRP.		
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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

activation of mature T cells.

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.

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 Mouse Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 70 amino acids and having a molecular mass of 7.9kDa. The TARC Mouse is purified by proprietary chromatographic techniques.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA