
Product Data Sheet

Product Name: TARC Human, His
 Cat. No.: GP21222
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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	MGSSHHHHHH SGLVPRGSHMARGTNGRE CCLEYFKGAI PLRKLKTWYQ TSEDCSRDAI VFVTVQGRAI CSDPNNKRVK NAVKYLQSLE RS.		
Formulation	The TARC protein contains 1xPBS (pH7.4) and 10% glycerol.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TARC Human Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 92 amino acids (24-94 a.a.) and having a molecular mass of 10.3 kDa. The TARC is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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