

Recombinant Murine Thymus and Activation Regulated Chemokine/CCL17

#R00433

Size: 5 µg/100 µg/500 µg

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
 - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 - 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Murine CCL17 also known as TARC, Small-inducible cytokine A17, Thymus and activation-regulated chemokine and SCYA17, is encoded by the CCL17 gene located on the chromosome 8. Among CC chemokine family members, CCL17 has approximately 24 – 29 % amino acid sequence identity with RANTES, MIP-1α, MIP-1β, MCP-1, MCP-2, MCP-3 and I-309. CCL17 is a secreted protein and expressed by thymus cells constitutively and phytohemagglutinin-stimulated peripheral blood mononuclear cells transiently. It signals through the chemokine receptors CCR4 and CCR8 and displays chemotactic activity for T lymphocytes and some other leukocytes. CCL17 play an important role in skin diseases such as atopic dermatitis, bullous pemphigoid and mycosis fungoides. Recombinant CCL17 has been shown to be chemotactic for T cell lines but not monocytes or neutrophils.

AA Sequence

ARATNVGRECCLDYFKGAIPKLVSWYKTSVECSRDAIVFLTVQGKLCADPKDKHVKKAIRLVKNPRP

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Species	Murine
Source	Escherichia coli.
Molecular Weight	Approximately 7.9 kDa, a single non-glycosylated polypeptide chain containing 70 amino acids.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The biologically active determined by a chemotaxis bioassay using human T-lymphocytes is in a concentration range of 1.0-10 ng/ml.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in

PBS, pH 7.4.

Endotoxin Less than 1 EU/ μ g of
rMuTARC/CCL17 as determined
by LAL method.
