Recombinant CCL17 protein (His tag)

Catalog Number	545589
Synonyms	CC chemokine TARC; Small-inducible cytokine A17; Thymus and activation-regulated chemokine
Species	Human
Expression System	E. coli
Accession	Q92583
Molecular Weight	Predictes a molecular mass of 9.74 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	24-94
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 24-94 aa (Q92583) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human C-C motif chemokine 17 (CCL17) fragment (amino acids 24-94) is a high-quality protein designed for immunological and inflammatory research. This fragment, derived from the thymus and activation-regulated chemokine (TARC), retains key functional properties and is optimized for stability and solubility, making it ideal for structural studies, biochemical assays, and investigations into T-cell chemotaxis. C-C motif chemokine 17 (CCL17), also known as thymus and activation-regulated chemokine (TARC), is a secreted chemokine that plays a critical role in inflammatory and immunological processes. It exhibits chemotactic activity specifically for T lymphocytes, with a preference for Th2 cells, while showing no effect on monocytes or granulocytes. CCL17 functions by binding to the CCR4 receptor on T-cell surfaces, contributing to conditions such as GM-CSF/CSF2-driven pain and inflammation. Under homeostatic conditions, it helps maintain the branched morphology of hippocampal microglia in the brain and may support synaptic plasticity during neuroinflammation. Additionally, CCL17 is involved in wound healing by promoting fibroblast migration. The protein is naturally secreted, as confirmed by multiple studies, underscoring its extracellular role in immune regulation and tissue repair.