# IL-17A/CTLA-8, Human, Recombinant

**Cat. No. : PCK177**

## General Information

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| **Synonyms** | Interleukin-17A;IL-17;IL-17A;Cytotoxic T-Lymphocyte-Associated Antigen 8;CTLA-8;IL17A;CTLA8;IL17 |
| **Species** | Human |
| **Expression host** | E.coli |
| **Sequence** | Gly24-Ala155 |
| **Accession** | Q16552 |
| **Mol mass** | 15.26 KDa |
| **Expiration date** | 12 months |
| **Bio activity** | Measured by its ability to induce IL-6 secretion by NIH-3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 1-7 ng/mL. |

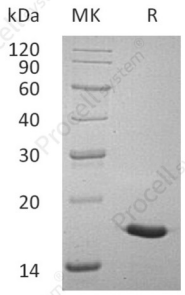
## Product feature

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| **Purity** | > 95% as determined by reducing SDS-PAGE. |
| **Endotoxin (EU/μg)** | < 0.1 |
| **Storage** | Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months. |
| **Shipping** | Ice bag |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4. |
| **Reconstitution** | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

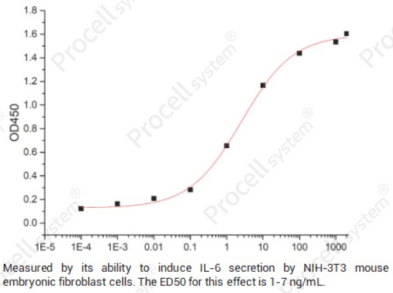
## Background

Interleukin-17 is a potent pro-inflammatory cytokine produced by activated memory T cells. There are at least six members of the IL-17 family in humans and in mice. As IL-17 shares properties with IL-1 and TNF-alpha, it may induce joint inflammation and bone and cartilage destruction. This cytokine is found in synovial fluids of patients with rheumatoid arthritis, and produced by rheumatoid arthritis synovium. It increases IL-6 production, induces collagen degradation and decreases collagen synthesis by synovium and cartilage and proteoglycan synthesis in cartilage. IL-17 is also able to increase bone destruction and reduce its formation. Blocking of interleukin-17 with specific inhibitors provides a protective inhibition of cartilage and bone degradation.

## SDS-PAGE




## Bio activity




Measured by its ability to induce IL-6 secretion by NIH-3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 1-7 ng/mL.