



## Interleukin-17A, human recombinant (rHuIL-17A)

**Catalog No:** 94896  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** CTLA-8, IL-17, IL-17A, Cytotoxic T-lymphocyte-associated antigen 8

### Background

IL17 is a proinflammatory cytokine produced by activated T cells. IL-17 regulates the activities of NF-kappaB and mitogen-activated protein kinases. Interleukin-17 can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of IL-17 are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis.

### Description

Interleukin-17A human recombinant produced in *E. coli* is a homodimeric, non-glycosylated polypeptide chain containing a total of 264 amino acids (2 chains of 132 aa) and having a molecular mass of 31 kDa. IL-17 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

Sterile filtered lyophilized (freeze-dried) powder, with 20 mM citrate, 0.1 M NaCl, pH4.5.

### Solubility

It is recommended to reconstitute the lyophilized Interleukin-17 in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized Interleukin-17A, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-17 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Purity

Greater than 95.0% as determined by SDS-PAGE.

### Activity

The ED50 as determined by the dose-dependent induction of IL-6 in Hs68 cell line was found to be approximately 2 ng/ml corresponding to a specific activity of 500,000 IU/mg.

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**

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