

# Active Recombinant Human IL-17A/CTLA-8 Protein

Catalog No.: RP00212 **Recombinant**

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human   | 3605    | Q16552     |

### Tags

C-His

### Synonyms

IL17A; CTLA-8; CTLA8; IL-17; IL-17A;  
IL17;  
interleukin-17A;CTLA-8;CTLA8;IL-17;IL-17  
A;IL17

## Product Information

| Source       | Purification           |
|--------------|------------------------|
| HEK293 cells | > 95% by SDS-<br>PAGE. |

### Endotoxin

< 0.1 EU/μg of the protein by LAL  
method.

### Formulation

Lyophilized from a 0.22 μm filtered  
solution of PBS, pH 7.4. Contact us for  
customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening.  
Reconstitute to a concentration of  
0.1-0.5 mg/mL in sterile distilled water.  
Avoid vortex or vigorously pipetting the  
protein. For long term storage, it is  
recommended to add a carrier protein or  
stabilizer (e.g. 0.1% BSA, 5% HSA, 10%  
FBS or 5% Trehalose), and aliquot the  
reconstituted protein solution to  
minimize free-thaw cycles.

## Background

IL17, also known as IL17a and CTLA8, is a 15-20 kDa glycosylated cytokine which belongs to the IL-17 family. The IL-17 family of cytokines includes six members, IL-17/IL-17A, IL-17B, IL-17C, IL-17D, IL-17E/IL-25, and IL-17F, which are produced by multiple cell types. IL17A promotes protective mucosal and epidermal inflammation in response to microbial infection. It induces chemokine production, neutrophil influx, and the production of antibacterial peptides. IL17A additionally enhances the production of inflammatory mediators by rheumatoid synovial fibroblasts and contributes to TNF alpha induced shock. In contrast, it can protect against the progression of colitis by limiting chronic inflammation. IL17A encourages the formation of autoreactive germinal centers and exacerbates the onset and progression of experimental models of autoimmunity.

## Basic Information

### Description

Active Recombinant Human IL-17A/CTLA-8 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile20-Ala155) of human IL-17A (Accession #NP\_002181.1) fused with a 6xHis tag at the C-terminus.

### Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Recombinant human IL17RA at 2 μg/mL (100 μL/well) can bind Recombinant human IL-17A, the EC<sub>50</sub> of human IL-17A is 32.5-130 ng/mL. 2. Measured by its ability to induce IL-6 secretion by Hela cells. The ED<sub>50</sub> for this effect is 2.64-10.58 ng/mL, corresponding to a specific activity of 9.45×10<sup>4</sup>~3.79×10<sup>5</sup> units/mg.

### Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

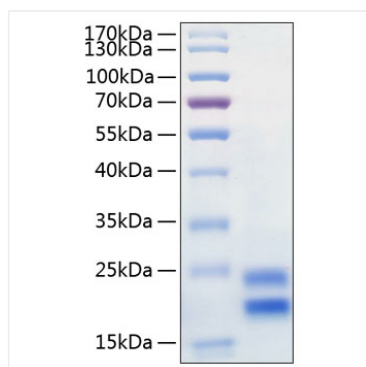
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

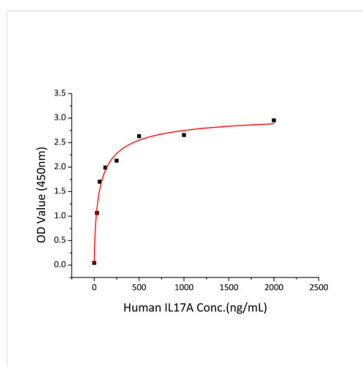
## Contact

 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)

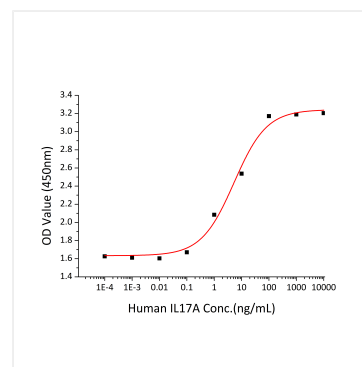
## Validation Data



Recombinant Human IL-17A Protein was determined by SDS-PAGE with Coomassie Blue, showing bands at 18-25 kDa.



Immobilized Recombinant human IL17RA , His Tag at 2 µg/mL (100 µL/well) can bind Recombinant human IL-17A, The  $EC_{50}$  of human IL-17A is 32.5-130 ng/mL.



Recombinant Human IL-17A induce IL-6 secretion by Hela cells. The  $ED_{50}$  for this effect is 2.64-10.58 ng/mL, corresponding to a specific activity of  $9.45 \times 10^4 \sim 3.79 \times 10^5$  units/mg.