

## **PRODUCT INFORMATION**

IL17A **Target** 

**Synonyms** CTLA-8;CTLA8;IL-17;IL-17A;IL17;ILA17

Recombinant Human IL17A Protein with C-Description

terminal human Fc tag

**Delivery** In Stock **Uniprot ID** Q16552 **Expression Host** HFK293

Tag C-Human Fc Tag

Molecular

Storage & Shipping

**Background** 

Purity

IL17A(Gly24-Ala155) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of 41.3 kDa after removal of the signal peptide. The apparent molecular mass of IL17A-hFc is **Molecular Weight** 

approximately 35-55 kDa due to glycosylation.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Formulation & Reconstitution

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store

at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

This gene is a member of the IL-17 receptor family which includes five members (IL-17RA-E) and the encoded protein is a proinflammatory cytokine produced by activated T cells. IL-17Amediated downstream pathways induce the production of inflammatory molecules, chemokines, antimicrobial peptides, and

remodeling proteins. The encoded protein elicits crucial impacts on host defense, cell trafficking, immune modulation, and tissue repair, with a key role in the induction of innate immune defenses. This cytokine stimulates non-hematopoietic cells and promotes chemokine production thereby attracting myeloid cells to inflammatory sites This cytokiné also regulates the activities of NFkappaB and mitogen-activated protein kinases and can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as

enhance the production of nitric oxide (NO) IL-17A plays a pivotal role in various infectious diseases, inflammatory and autoimmune disorders, and cancer. High levels of this cytokine

are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. The lung damage induced by the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is to a large extent, a

result of the inflammatory response promoted by cytokines such as IL17A. [provided by RefSeq,

Sep 2020]

Usage Research use only

Conjugate Unconjugated

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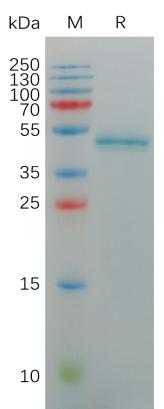


Figure 1. Human IL17A Protein, hFc Tag on SDS-PAGE under reducing condition.

## Human IL17A,hFc Tagged protein ELISA

0.2 µg of Human IL17A, hFc tagged protein per well

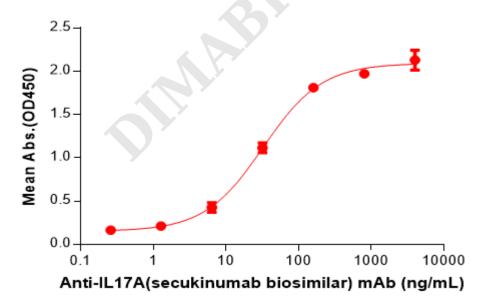


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) Human IL17A Protein, hFc Tag(PME100884) can bind Anti-IL17A(secukinumab biosimilar) mAb(BME100137) in a linear range of 6.40–160 ng/mL.

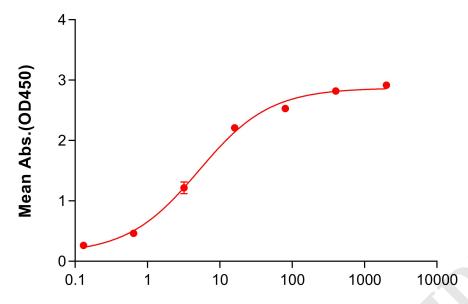
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## Human IL17A, hFc Tagged protein ELISA

 $0.2~\mu g$  of Human IL17A, hFc tagged protein per well



Anti-IL17A(bimekizumab biosimilar) mAb. (ng/mL)

Figure 3. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) Human IL17A Protein, hFc Tag (PME100884) can bind Anti-IL17A(bimekizumab biosimilar) mAb (BME100435) in a linear range of 0.64–16 ng/mL, mouse anti-human Fab-specific antibody was used as detection antibody.

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