

# Marmoset IL17 / IL17A Protein

Catalog Number: 90287-CNAE



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

IL17A

### Protein Construction:

A DNA sequence encoding the Marmoset IL17A (ABQ09496.1) (Ile20-Ala155) was expressed and purified with an initial Met.

Source: Marmoset

Expression Host: E. coli

## QC Testing

Purity: > 85 % as determined by SDS-PAGE

### Bio Activity:

1. Measured by its binding ability in a functional ELISA. Immobilized Marmoset IL17A (cat: 90287-CNAE) at 10 µg/mL (100 µl/well) can bind human IL17Ra (Cat:10895-H03H). The EC<sub>50</sub> of human IL17Ra (Cat:10895-H03H) is 8.5-20.0 ng/mL. 2. Measured by its ability to induce IL-6 secretion by HFF human foreskin fibroblast cells. The ED<sub>50</sub> for this effect is typically 2.95-11.8 ng/mL. 3. Measured by its ability to induce IL-6 secretion by NIH3T3 mouse embryonic fibroblast cells in the presence of 20 ng/mL TNFα. The ED<sub>50</sub> for this effect is 0.5-2.5 ng/mL.

### Endotoxin:

Please contact us for more information.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

### Molecular Mass:

The recombinant Marmoset IL17A consists of 135 amino acids and has a calculated molecular mass of 15.4 kDa. It migrates as an 17 kDa band in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

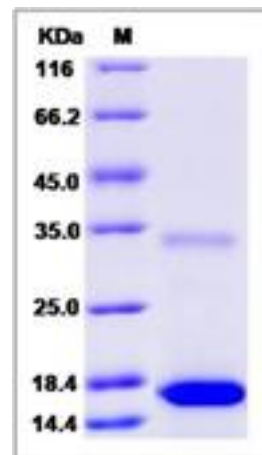
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

IL17, also known as IL17a, is a cytokine belongs to the IL-17 family. Cytokines are proteinaceous signaling compounds that are major mediators of the immune response. They control many different cellular functions including proliferation, differentiation and cell survival/apoptosis but are also involved in several pathophysiological processes including viral infections and autoimmune diseases. Cytokines are synthesized under various stimuli by a variety of cells of both the innate (monocytes, macrophages, dendritic cells) and adaptive (T- and B-cells) immune systems. 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. IL-17 regulates the activities of NF-kappaB and mitogen-activated protein kinases. This cytokine 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.

## References

1.Andoh A, *et al.* (2002) IL-17 selectively down-regulates TNF-alpha-induced RANTES gene expression in human colonic subepithelial myofibroblasts. *J Immunol.* 169(4):1683-7. 2.Kotake S, *et al.* (1999) IL-17 in synovial fluids from patients with rheumatoid arthritis is a potent stimulator of osteoclastogenesis. *J Clin Invest.* 103(9):1345-52. 3.Laan M, *et al.* (1999) Neutrophil recruitment by human IL-17 via C-X-C chemokine release in the airways. *J Immunol.* 162(4):2347-52.

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