

## Active Recombinant Rabbit IL17 Protein, His-tagged

Cat. No. IL17A-441R Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Rabbit IL17A (XP\_002714544.1) (Gly24-Ala153) was expressed with an initial Met.

**Species** Rabbit

**Source** E.coli

**ProteinLength** Gly24-Ala153

#### 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.

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<b>Predicted N Terminal</b>	Met
<b>Form</b>	Lyophilized from sterile PBS, pH, 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA. Immobilized rabbit IL17a at 10µg/mL (100µL/well) can bind rat IL17RA-Fc3, the EC50 of rat IL17RA-Fc3 is 1-30 ng/mL.
<b>Molecular Mass</b>	The recombinant rabbit IL17A consists of 131 amino acids and predicts a molecular mass of 15.1 kDa
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE.
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Official Symbol</b>	IL17A
<b>Synonyms</b>	IL17A;interleukin 17A;interleukin-17A

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