

Active Recombinant Rabbit IL17 Protein, His-tagged

Cat. No. IL17A-440R Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Rabbit IL17A (XP_002714544.1) (Gly24-Ala153) was expressed with a polyhistidine tag at the N-terminus.

Species Rabbit

Source Insect Cells

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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Predicted N Terminal	His
Form	Lyophilized from sterile 20 mM PBS, 500 mM NaCl, 10 % glycerol, pH 7.0. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized rabbit IL17a-His at 10µg/mL (100µL/well) can bind rat IL17RA-Fc3, the EC50 of rat IL17RA-Fc3 is 1-40 ng/mL.
Molecular Mass	The recombinant rabbit IL17A consists 149 amino acids and predicts a molecular mass of 17.3 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 85 % as determined by SDS-PAGE. as determined by SDS-PAGE.
Storage	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.
Reconstitution	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

Official Symbol	IL17A
Synonyms	IL17A;interleukin 17A;interleukin-17A

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