

Rhesus IL17 / IL17a Protein

Catalog Number: 90306-KNAB



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

IL17A

Protein Construction:

A DNA sequence encoding the rhesus IL17A (XP_001106391.1) (Met1-Ala155) was expressed.

Source: Rhesus

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE.

Bio Activity:

1.Measured by its binding ability in a functional ELISA. 2.Immobilized rhesus IL17a(Cat:90306-KNAB) at 10µg/mL (100µL/well) can bind rhesus IL17RA-Fc(Cat:90127-C02H) ,the EC₅₀ of rhesus IL17RA-Fc is 0.05-0.3 µg/mL.

Endotoxin:

< 1.0 EU per µg protein as determined by the LAL method.

Stability:

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

Predicted N terminal: Gly 24

Molecular Mass:

The recombinant rhesus IL17A consists of 132 amino acids and predicts a molecular mass of 15.1 kDa.

Formulation:

Lyophilized from sterile 20 mM Tris, 150 mM NaCl, pH 8.0, 10 % glycerol.

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:

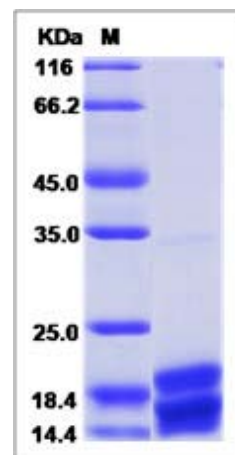
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

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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