Recombinant Cynomolgus Interleukin-17A/IL-17A (C-6His)

Catalog Number: PKSQ050109

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

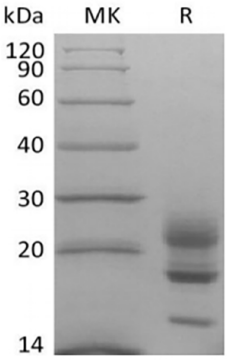
Description

Species	Cynomolgus macaques
Source	HEK293 Cells-derived Cynomolgus macaques Interleukin-17A/IL-17A protein Gly24-Ala155, with an C-terminal His
Calculated MW	15.9 kDa
Observed MW	15-25 kDa
Accession	G7P4U9
Bio-activity	Immobilized Cynomolgus IL-17A-His (Cat#PKSQ050109) at 10 μg/ml (100 μl/well) can bind Anti-Human IL-17A mAb. The ED_{50} of Anti-Human IL-17A mAb is 128 ng/ml.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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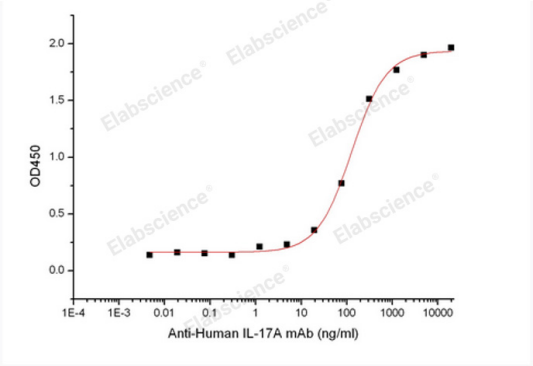

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Background

Interleukin-17 is a potent pro-inflammatory cytokine produced by activated memory T cells. There are at least six members of the IL-17 family in humans and in mice. As IL-17 shares properties with IL-1 and TNF-alpha, it may induce joint inflammation and bone and cartilage destruction. This cytokine is found in synovial fluids of patients with rheumatoid arthritis, and produced by rheumatoid arthritis synovium. It increases IL-6 production, induces collagen degradation and decreases collagen synthesis by synovium and cartilage and proteoglycan synthesis in cartilage. IL-17 is also able to increase bone destruction and reduce its formation. Blocking of interleukin-17 with specific inhibitors provides a protective inhibition of cartilage and bone degradation.