

Human IL-17A, Tag Free Protein

HA210731



Product name:	Human IL-17A, Tag Free
Species reactivity:	Human
Bio-Activity:	Measured by its ability to induce IL-6 secretion by NIH/3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 3-10 ng/mL.
Protein construction description:	A DNA sequence encoding the human IL-17A protein (Q16552) (Gly 24-Ala 155) was expressed with tag free.

Background: Interleukin 17A (IL 17A), also known as CTLA 8, is a 15.2 kDa glycosylated cytokine that plays an important role in anti microbial and chronic inflammation. The six IL 17 cytokines (IL 17A-F) are encoded by separate genes but adopt a conserved cystine knot fold. Mature human IL 17A shares 60% amino acid sequence identity with mouse and rat IL 17A. IL 17A is secreted by Th17 cells, gamma δ T cells, iNKT cells, NK cells, LT α cells, neutrophils, and intestinal Paneth cells. It forms disulfide linked homodimers as well as disulfide linked heterodimers with IL 17F. IL 17A exerts its effects through the transmembrane IL 17 RA in complex with IL 17 RC or IL 17 RD. Both IL 17 RA and IL 17 RC are required for responsiveness to heterodimeric IL 17A/F. IL 17A promotes protective mucosal and epidermal inflammation in response to microbial infection. It induces chemokine production, neutrophil influx, and the production of antibacterial peptides.

Purity:	>90% as determined by SDS-PAGE.
Endotoxin:	Less than 1.0 EU per μ g by the LAL method.
Fragment region:	IL-17A (24-155)
Source:	HEK293
Accession:	Q16552
Predicted molecular mass:	15.2 kD
Formulation:	Lyophilized from a 0.2 μ m filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution:	Reconstitute at 250 μ g/ml in sterile water.
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 $^{\circ}$ C to -80 $^{\circ}$ C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

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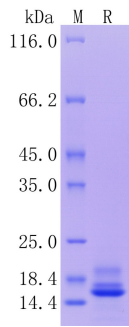


Fig1: Protein on SDS-PAGE under reducing (R) condition.

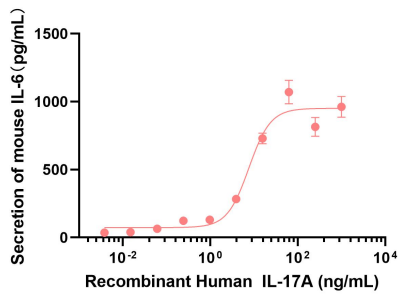


Fig2: Measured by its ability to induce IL-6 secretion by NIH/3T3 mouse embryonic fibroblast cells. The ED₅₀ for this effect is 3-10 ng/mL.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".