

IL-17A Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	IL-17CTLA-8;interleukin 17A;CTLA-8;IL17;IL17A
Protein Construction:	Gly24-Ala155
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q16552-1
Molecular Weight:	18.2 kDa (predicted). Due to glycosylation, the protein migrates to 16-30 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Immobilized Biotinylated Human IL-17A, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human IL-17R alpha, hFc Tag with the EC50 of 27.0ng/ml determined by ELISA (QC Test).2. Human IL-17R alpha, hFc Tag captured on CM5 Chip via protein A can bind Biotinylated Human IL-17A, His-Avi Tag with an affinity constant of 2.18 nM as determined in SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin-17A (IL-17A), also known as CTLA-8, is a 15-20 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

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adopt a conserved cystine knot fold. IL-17A is a ligand for IL17RA and IL17RC. The heterodimer formed by IL17A and IL17F is a ligand for the heterodimeric complex formed by IL17RA and IL17RC. Involved in inducing stromal cells to produce proinflammatory and hematopoietic cytokines.

Reference

Gaffen S L. An overview of IL-17 function and signaling[J]. Cytokine, 2008, 43(3):0-407.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481