

IL-17A & IL-17F Heterodimer Protein, Mouse, Recombinant (Strep-II & His)

General Information

Synonyms:	IL-17A;ML-1;IL24;Interleukin-17A;Interleukin-17F;IL-17;CTLA-8;IL-17F
Protein Construction:	Ala26-Ala158 (IL-17A) and Arg29-Ala161 (IL-17F)
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q62386(IL-17A)&Q7TNI7-1(IL-17F)
Molecular Weight:	16.01 kDa (IL-17A) and 15.98 kDa (IL-17F) (Predicted); 13-23 kDa and 25-35 kDa (Reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Immobilized Mouse IL-17A&F, His Tag at 2 µg/ml (100 µl/well) on the plate. Dose response curve for Mouse IL-17R alpha, hFc Tag with the EC50 of 6.9 ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.1 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant 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 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.

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