

## IL-17RA Protein, Mouse, Recombinant (hFc)

### General Information

Synonyms:	Il17r;VDw217;Cdw217;interleukin 17 receptor A;AW538159
Protein Construction:	Ser32-Trp322
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q60943
Molecular Weight:	60.1 kDa (Predicted); 95-110 kDa (Due to glycosylation)

### QC Testing

Biological Activity:	Immobilized Mouse IL-17A&F, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Mouse IL-17R alpha, hFc Tag with the EC50 of 35.9 ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22µm 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 17 (also known as CTLA-8) is a T cell-expressed pleotropic cytokine. IL-17 binds to IL-17 receptor (IL-17 R) which shares no homology with any known family of receptors. While the expression of IL-17 is restricted to activated T cells, the IL-17 R mRNA exhibits a broad tissue distribution, and has been detected in virtually all cells and tissues tested. The human IL-17 R gene was localized to chromosome 22.

### Reference

Gaffen SL. (2009) Structure and signalling in the IL-17 receptor family. Nat Rev Immunol. 9 (8): 556-67.

Johansen C, et al.. (2009) Characterization of the interleukin-17 isoforms and receptors in lesional psoriatic skin. Br J Dermatol. 160 (2): 319-24.

Yao Z, et al.. (1997) Molecular characterization of the human interleukin (IL)-17 receptor. Cytokine 9 (11): 794-800.

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