

IL-17RC Protein, Human, Recombinant(aa 1-454, hFc)

General Information

Synonyms:	IL17RL;interleukin 17 receptor C;UNQ61118/PRO20040/PRO38901;IL17-RL
Protein Construction:	A DNA sequence encoding the extracellular domain of human IL17RC isoform 3 (NP_116121.2) (Met 1-Ala 454) was fused with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Leu 21
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8NAC3-3
Molecular Weight:	75.3 kDa (predicted); 100-120 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized Human IL17 at 2 µg/ml (100 µl/well) can bind Human IL17RC hFc, the EC50 of Human IL17RC hFc is 200-800 ng/mL.
Purity:	> 95 % as determined by SDS-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, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

IL17RC (Interleukin 17 Receptor C) is a Protein Coding gene. This gene encodes a single-pass type I membrane protein that shares similarity with the interleukin-17 receptor (IL-17RA). IL17RC is widely expressed in the prostate, skin, and other tissues. The hypomethylation within the IL17RC gene promoter in peripheral blood is not suitable for use as a clinical biomarker of AMD. This study highlights the need for considerable replication of epigenetic

association studies before clinical application. methylation of IL17RC could play as a marker in choroidal neovascularization (CNV) and degeneration of retinal pigment epithelium (RPE) cells in vitro. Diseases associated with IL17RC include Candidiasis, Familial, 9, and Chronic Mucocutaneous Candidiasis.

Reference

Allen W, et al. (2010) IL-17RC: A partner in IL-17 signaling and beyond. *Semin Immunopathol.* 32(1): 33-42.

You ZB, et al. (2007) Differential Expression of IL-17RC Isoforms in Androgen-Dependent and Androgen-Independent Prostate Cancers *Neoplasia.* 9(6): 464-70.

Zrioual S, et al. (2008) IL-17RA and IL-17RC receptors are essential for IL-17A-induced ELR+ CXC chemokine expression in synoviocytes and are overexpressed in rheumatoid blood. *J Immunol.* 180(1): 655-63.

Kuestner RE, et al. (2010) Identification of the IL-17 Receptor Related Molecule IL-17RC as the Receptor for IL-17F. *J Immunol.* 179(8): 5462-73.

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