

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

General Information

Synonyms:	IL17RL;interleukin 17 receptor C;IL17-RL;UNQ6118/PRO20040/PRO38901
Protein Construction:	A DNA sequence encoding the full length of human IL17RC isoform 3 (NP_116121.2) (Met 1-Ala 454) was fused with a polyhistidine tag at the carboxy-terminus. Predicted N terminal: Leu 21
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q8NAC3-3
Molecular Weight:	49.6 kDa (predicted); 60 kDa (reducing conditions)

QC Testing

Biological Activity:	1. Measured by its ability to bind with recombinant human IL17A-His in a functional ELISA. 2. Measured by its ability to bind with recombinant human 17A in a functional ELISA.
Purity:	> 90 % 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 20 mM Tris, 500 mM NaCl, pH 7.4, 10% gly. 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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