

Active Recombinant Human IL17RC protein, Fc-tagged

Cat. No. IL17RC-249H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human IL17RC(Leu21-His465) fused Fc region of Human IgG1 at C-terminal was expressed in HEK293.

Species Human

Source HEK293

ProteinLength 21-465 a.a.

Description

IL-17 receptor C (IL-17RC; also known as IL-17RL and IL-17Rhom) is an 85-110 kDa member of the IL-17 receptor family. IL-17 plays a key role in the development of autoimmunity and inflammation. Human IL-17 RC is a type I transmembrane glycoprotein that is expressed on neutrophils, endothelial cells, chondrocytes and osteoblasts, breast and prostatic epithelium, fibroblasts, renal tubular epithelium, and skeletal muscle cells. Mature human IL-17 RC consists of a 518 amino acid (aa) extracellular domain (ECD), a 21 aa transmembrane segment, and a 232 aa cytoplasmic region. It is estimated that there are over 90 alternative splice forms, with transmembrane-containing isoforms predominating. This recombinant protein corresponds to IL-17 RC isoform 1, the canonical form. Within the ECD, IL-17 RC isoform 1 shares 69% aa sequence identity with mouse IL-17 RC. IL-17 RC is the cognate receptor for IL-17F, and it binds IL-17A with similar affinity. IL-17 RC associates with IL-17 RA to form a receptor complex for both IL-17A and IL-17F.

Predicted N Terminal Leu21

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| Form | Lyophilized from a 0.2 µm filtered solution in PBS. |
| Bio-activity | Measured by its binding ability in a functional ELISA. When Recombinant Human IL-17RC Isoform 1 Fc Chimera is coated at 0.5 µg/mL, Recombinant Human IL-17/IL-17A binds with an ED50 = 0.1-0.6 ng/mL. |
| Molecular Mass | Predicted Molecular Mass: 76 kDa SDS-PAGE: 95-113 kDa, reducing conditions |
| Endotoxin | <0.1 EU per 1 µg of the protein by the LAL method. |
| Purity | >95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining. |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution. |
| Reconstitution | Reconstitute at 500 µg/mL in PBS. |

GENE INFORMATION

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| Gene Name | IL17RC interleukin 17 receptor C [Homo sapiens] |
| Official Symbol | IL17RC |
| Synonyms | IL17RC; interleukin 17 receptor C; interleukin-17 receptor C; IL17 RL; IL-17RL; IL17Rhom; zcytoR14; IL17F receptor; IL-17 receptor C; interleukin-17 receptor homolog; interleukin-17 receptor-like protein; IL17RL; IL17-RL; FLJ95963; FLJ96005; MGC10763; |

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|----------------|--------------|
| Gene ID | 84818 |
| mRNA Refseq | NM_001203263 |
| Protein Refseq | NP_001190192 |
| MIM | 610925 |
| UniProt ID | Q8NAC3 |

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