

Recombinant Human IL4R, Fc-tagged

Cat. No. IL4R-28641TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to the signal peptide and extracellular amino acids 1-232 of Human IL4R fused to the Fc region of human IgG1. The chimeric protein was expressed in modified human 293 cells.
Species	Human
ProteinLength	1-232 a.a.
Description	This gene encodes the alpha chain of the interleukin-4 receptor, a type I transmembrane protein that can bind interleukin 4 and interleukin 13 to regulate IgE production. The encoded protein also can bind interleukin 4 to promote differentiation of Th2 cells. A soluble form of the encoded protein can be produced by an alternate splice variant or by proteolysis of the membrane-bound protein, and this soluble form can inhibit IL4-mediated cell proliferation and IL5 upregulation by T-cells. Allelic variations in this gene have been associated with atopy, a condition that can manifest itself as allergic rhinitis, sinusitis, asthma, or eczema. Two transcript variants encoding different isoforms, a membrane-bound and a soluble form, have been found for this gene.
Conjugation	Fc
Biological activity	The ED50 of IL4R - Fc Chimera is typically 45-60 ng/ml as measured by its ability to neutralize IL-4 mediated proliferation of the human growth factor dependent TF-1 cell line.

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Form	Lyophilised: It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Trehalose, 1% Human serum albumin, PBS
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	Theoretical Sequence: MKVLQEPTCVSDYMSISTCEWKMNGPTNC STELRLLYQLVF LLSEAHTCIPEN NGGAGCVCHLLMDDVVSADNYTLDLWAGQQLLWKGSFKPS EHV KPRAPGNL TVHTNVSDTLLLTWSNPYPDPNYLYNHLTYAVNIWSENDP ADFRIYNV TYLEP SLRIAASLTLSGISYRARVRAWAQCYNNTTWSEWSPSTKWH NSYREPFEQH G SSNTKVDDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPP KPKDTLMISRTPE VT CVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNS TYRVVSVLTVLH QDWL NGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYT LPPSRDELTKNQV SLTCLVK GFYPSDIAVEWESNGQPENNYKTTTPVLDSDGS FFLYSKLTVDKSR WQQGNVFSC SVMHEALHNHYTQKSLSLSPGK

GENE INFORMATION

Gene Name	IL4R interleukin 4 receptor [Homo sapiens]
Official Symbol	IL4R
Synonyms	IL4R; interleukin 4 receptor; interleukin-4 receptor subunit alpha; CD124;
Gene ID	3566
mRNA Refseq	NM_000418

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Protein Refseq	NP_000409
MIM	147781
Uniprot ID	P24394
Chromosome Location	16p12.1-p11.2
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; IL-4 signaling Pathway, organism-specific biosystem;
Function	insulin receptor substrate binding; interleukin-4 receptor activity; protein binding; receptor activity; receptor signaling protein activity;

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