

Recombinant Human IL-4R protein (Fc Chimera)  
ab215597

Description	
Product name	Recombinant Human IL-4R protein (Fc Chimera)
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	Mammalian
Accession	<u>P24394</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MKVLQEPTCVSDYMSISTCEWKMNGPTNCSTELRLLYQL VFLLSEHTCI PENNGGAGCVCHLLMDDVVSADNYTLDLWAGQQLLWKG SFKPSEHVKPRA PGNLTVHTNVSDTLLL TWSNPYPPDNYLYNHLT YAVNWSE NDPADFRIY NVTYLEPSLRIAASTLKSGISYRVRRAWAQCYN TTWSEW SPSTKWHNSY REPFEQIEGRMDPKSCDKTHTCPPCPAPELLGGPSVFLF PPKPKDTLMIS RTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPR EEQYNSTYRVVS VLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPR EPQVYTLPPS RDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT PPVLDSDGSF FLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSL SPGK
Predicted molecular weight	50 kDa including tags
Amino acids	26 to 231
Tags	Fc tag C-Terminus
Additional sequence information	Fc tag at C terminal.

## Specifications

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Our **Abpromise guarantee** covers the use of **ab215597** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** SDS-PAGE

**Form** Lyophilized

## Preparation and Storage

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**Stability and Storage** Shipped at 4°C. Store at -20°C long term.

pH: 7.40

Constituent: 100% PBS

Lyophilized from a 0.2 µm filtered solution

**Reconstitution** Reconstitute with ddH<sub>2</sub>O to a concentration no less than 100 µg/mL. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

## General Info

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**Function** Receptor for both interleukin 4 and interleukin 13. Couples to the JAK1/2/3-STAT6 pathway. The IL4 response is involved in promoting Th2 differentiation. The IL4/IL13 responses are involved in regulating IgE production and, chemokine and mucus production at sites of allergic inflammation. In certain cell types, can signal through activation of insulin receptor substrates, IRS1/IRS2.

Soluble IL4R (sIL4R) inhibits IL4-mediated cell proliferation and IL5 up-regulation by T-cells.

**Tissue specificity** Isoform 1 and isoform 2 are highly expressed in activated T-cells.

**Sequence similarities** Belongs to the type I cytokine receptor family. Type 4 subfamily.

Contains 1 fibronectin type-III domain.

**Domain** The extracellular domain represents the IL4 binding protein (IL4BP).

The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.

The box 1 motif is required for JAK interaction and/or activation.

Contains 1 copy of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases.

**Post-translational modifications** On IL4 binding, phosphorylated on C-terminal tyrosine residues. Phosphorylation on any one of tyrosine residues, Tyr-575, Tyr-603 or Tyr-631, is required for STAT6-induced gene induction. The soluble form (sIL4R/IL4BP) can also be produced by proteolytic cleavage at the cell surface (shedding) by a metalloproteinase.

**Cellular localization** Secreted and Cell membrane.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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