

# Recombinant Human Interleukin 4 Receptor

**Cat. No.** IL4R-1238H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant human IL4R is a 23.7 kDa protein containing 207 amino acid residues consisting of only the extracellular domain of the IL4R.                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>              | A293                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>         | Human IL-4 exerts its biological effects via signaling through its receptor system, IL4R. There are two types of the IL4R complexes, the type I receptor consisting of the IL4R alpha and the common gamma chain, $\gamma$ c and the type II receptor consisting of IL4R and the IL-13R alpha. The IL4R chain contains an extracellular domain of 207 amino acids, a transmembrane domain of 24 amino acids, and an intracellular domain of 569 amino acids. |
| <b>Form</b>                | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>              | Greater than 97% by SDS-PAGE and HPLC analyses. Endotoxin level is less than 0.1 ng per $\mu$ g (1 EU/ $\mu$ g).                                                                                                                                                                                                                                                                                                                                             |
| <b>Biological Activity</b> | The ED <sub>50</sub> was determined by its ability to inhibit the IL-4 dependent proliferation of human TF-1 cells is < 5.0 ng/ml (in the presence of 0.5 ng/ml of IL-4), corresponding to a specific activity of > 2 x 10 <sup>5</sup> units/mg.                                                                                                                                                                                                            |
| <b>Reconstitution</b>      | We recommend a quick spin followed by reconstitution in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored                                                                                                                                                                                                                                                                                   |

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at 40°C for 1 week or -200°C for future use.

**storage**

The lyophilized protein is stable for a few weeks at room temperature, but best stored at -200°C. Reconstituted IL4R alpha should be stored in working aliquots at -200°C.

**Official Symbol**

IL4R

## GENE INFORMATION

**Gene Name**

IL4R interleukin 4 receptor [ Homosapiens ]

**Synonyms**

IL4R; interleukin 4 receptor; CD124; IL4RA; OTTHUMP00000122506; interleukin 4 receptor alpha chain; interleukin-4 receptor alpha chain; IL-4R-alpha; CD124 antigen

**Gene ID**

3566

**mRNA Refseq**

NM\_000418

**Protein Refseq**

NP\_000409

**MIM**

147781

**UniProt ID**

P24394

**Chromosome Location**

16p12.1-p11.2

**Pathway**

Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Hematopoietic cell lineage

**Function**

interleukin-4 receptor activity; receptor activity; protein binding; receptor signaling protein activity

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