

Recombinant Human Interleukin 4 Receptor

Cat. No. IL4R-586H **Lot. No.** (See product label)

SPECIFICATION

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| Product Overview | This recombinant human sIL-4R alpha is a 23.7 kDa protein containing 207 amino acid residues consisting of only the extracellular domain of the IL-4R alpha. It is produced in <i>HEK 293 cells</i> . |
| Species | Human |
| Source | HEK293 |
| Description | Human IL-4 exerts its biological effects via signaling through its receptor system, IL-4R. There are two types of the IL-4 receptor complexes, the type I receptor consisting of the IL-4R alpha and the common gamma chain, yc and the type II receptor consisting of IL-4R alpha and the IL-13R alpha. The IL-4R alpha chain contains an extracellular domain of 207 amino acids, a transmembrane domain of 24 amino acids, and an intracellular domain of 569 amino acids. |
| Amino Acid Sequence | MKVLQEPTCV SDYMSISTCE WKMNGPTNCS TELRLLYQLV FLLSEAHTCI PENNGGAGCV CHLLMDDVVS ADNYTLDLWA GQQLLWKGsf KPSEHVkpRA PGNLTvHTNV SDTLLLtWSN PYPPDNYLYN HlTYAVNIWS ENDPADfRIY NVTyLEPSLR IAAStLKSGI SyRARVRAWA QCYNTTWSEW SPSTKWHNSY REPFEQH. |
| Note | If this material is not to be used for coating or labeling or other applications requiring carrier free material), the addition of 0.1% BSA to dilution buffers or dilution in sterile culture media is recommended to enhance stability and minimize absorption to vial. |

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| Supplied | The sterile filtered solution was lyophilized from 1 x PBS, pH 7.2. |
| Purity | Greater than 97% by SDS-PAGE and HPLC analyses. Endotoxin level is less than 0.1 ng per g (1EU/g). |
| Reconstitution | We recommend a quick spin followed by reconstitution in 1 x PBS, pH 7.2 to a concentration of 0.1-1.0 mg/ml. Allow to set at least 10 minutes. Rotate and/or vortex to mix. Centrifuge for 1-2 minutes at 1000 rpm to concentrate solution in bottom of vial. |
| Reactivity | The ED ₅₀ as 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 IL-4), corresponding to a specific activity of > 2 x10 ⁵ units/mg. |
| Storage | The lyophilized powder is stable at room temperature for a few weeks but it is best stored desiccated at -20°C. Reconstituted IL-4R should be stored in working aliquots at -20°C. Avoid frequent freeze thaw cycles. |

GENE INFORMATION

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| Gene Name | IL4R interleukin 4 receptor [Homo sapiens] |
| Synonyms | IL4R; interleukin 4 receptor; CD124; IL4RA; interleukin 4 receptor alpha chain; OTTHUMP00000122506; interleukin-4 receptor alpha chain; CD_antigen; IL-4R-alpha; Soluble interleukin-4 receptor alpha chain; sIL4Ralpha/prot; IL-4-binding protein; IL4-BP |
| 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; Endocytosis; Hematopoietic cell lineage; Jak-STAT signaling pathway |
| Function | interleukin-4 receptor activity; receptor activity; protein binding; receptor signaling protein activity |

PDB rendering based on 1iar.

