

Recombinant Human Interleukin 4 Receptor

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

SPECIFICATION

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, γc 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 WKMNNGPTNCS TELRLLYQLV FLLSEAHTCI PENNNGGAGCV CHLLMDDVVS ADNYTLDLWA GQQLLWKGKF KPSEHVKPRA PGNLTVHTNV SDTLLLTWSN PYPPDNYLYN HLTYAVNIWS ENDPADFRIY NVTYLEPSLR IAASTLKGSI 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

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.	