

Active Recombinant Human IL4R Protein

Cat. No. IL4R-01H Lot. No. (See product label)

SPECIFICATION

Product Overview CHO cell-derived Recombinant Human sIL-4 Receptor α corresponding to 209 amino acid residues of the extracellular domain of IL-4R α without tag was expressed in CHO.

Species Human

Source CHO

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 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. Polymorphisms in this gene are also associated with resistance to human immunodeficiency virus type-1 infection. Alternate splicing results in multiple transcript variants.

Bio-activity The ED50 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 $\geq 2 \times 10^5$ units/mg.

Molecular Mass 23.9 kDa

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AA Sequence

GNMKVLQEPTCVSDYMSISTCEWKMNGPTNCSTELRLLYQLVFLLEAHTCIPENN
GGAGCVCHLLMDDVVSADNYTLDLWAGQQLLWKGSEHVKPRAPGNLTVHTN
VSDTLLLTSNPYPDPNYLYNHLTYAVNIWSENDPADFRIYNVTYLEPSLRIAASTLK
SGISYRARVRAWAQCYNNTTWSEWSPSTKWHNSYREPFEQH

Purity

≥ 95% by SDS-PAGE gel and HPLC analyses.

GENE INFORMATION

Gene Name

IL4R interleukin 4 receptor [Homo sapiens (human)]

Official Symbol

IL4R

Synonyms

IL4R; interleukin 4 receptor; CD124; IL4RA; IL-4RA; interleukin-4 receptor subunit alpha; IL-4 receptor subunit alpha; IL4R nirs variant 1; interleukin 13 receptor; interleukin-4 receptor alpha chain

Gene ID

3566

mRNA Refseq

NM_000418

Protein Refseq

NP_000409

MIM

147781

UniProt ID

P24394

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