

Recombinant Human IL7R

Cat. No. IL7R-29272TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 21-236 of Human IL7R alpha fused to the Fc region of Human IgG1 expressed in modified Human 293 cells.
Species	Human
ProteinLength	21-236 a.a.
Description	The protein encoded by this gene is a receptor for interleukine 7 (IL7). The function of this receptor requires the interleukin 2 receptor, gamma chain (IL2RG), which is a common gamma chain shared by the receptors of various cytokines, including interleukine 2, 4, 7, 9, and 15. This protein has been shown to play a critical role in the V(D)J recombination during lymphocyte development. This protein is also found to control the accessibility of the TCR gamma locus by STAT5 and histone acetylation. Knockout studies in mice suggested that blocking apoptosis is an essential function of this protein during differentiation and activation of T lymphocytes. The functional defects in this protein may be associated with the pathogenesis of the severe combined immunodeficiency (SCID).
Form	Lyophilised:It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not reco
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 10% Trehalose, 1% Human serum albumin, PBS
Storage	Store at +4°C.
Sequences of amino acids	Theoretical Sequence:ESGYAQNGDLEDAELDDYSFSCYSQLEVN GSQHSLTCAFE DPDVNITNLEFEICGALVEVKCLNFRK LQEIFYIETKKFLLIGKSNICVKVGEKSLTCKK IDLTIV KPEAPFDLSVVYREGANDFVVTFTNTSHLQKKYVKVLMH DVAYRQEKDEN KWITHVNLSSSTKLTLQQRKLQPAAMYEIKV RSIPDHYFKGFSEWSPSYFRTPEINN SSGGIPKVDK KVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTL MISRTPEVT CVVVDVSHEDPEVKFNWYVDGVEVHNAKTKP REEQYNSTYRVVSVLTVLHQDWL NGKEYKCRVSNKALP APIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKG FYPSDIAVEWESNGQPENNYKTTPVLDSDGSFFLY SKLTVDKSRWQQGNVFCSS VMHEALHNHYTQKSLSLSP GK
Sequence Similarities	Belongs to the type I cytokine receptor family. Type 4 subfamily.Contains 1 fibronectin type-III domain.

GENE INFORMATION

Gene Name	IL7R interleukin 7 receptor [Homo sapiens]
Official Symbol	IL7R
Synonyms	IL7R; interleukin 7 receptor; interleukin-7 receptor subunit alpha; CD127;
Gene ID	3575
mRNA Refseq	NM_002185
Protein Refseq	NP_002176

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MIM	146661
Uniprot ID	P16871
Chromosome Location	5p13
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; IL-7 Signaling Pathway, organism-specific biosystem;
Function	antigen binding; interleukin-7 receptor activity; protein binding; receptor activity;

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