

Recombinant Human IL7R Protein

Cat. No. IL7R-5169H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human IL7R full-length ORF (AAH67539.1) recombinant protein without tag.
Species	Human
Source	Wheat Germ
Description	<p>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). [provided by RefSeq]</p>
Form	Liquid
Molecular Mass	51.5 kDa
AA Sequence	<p>MTILGTTFGMVFSLLQVVSGESGYAQNGDLEDAELDDYTFSCYSQLEVNGSQHSLT CAFEDPDVNTTNLEFEICGALVEVKCLNFRKLQEIYFIETKKFLLIGKSNICVKVGEKSL TCKKIDLTIVKPEAPFDLSVIYREGANDFVVTFNNTSHLQKKYVKVLMHDVAYRQEKD ENKWITHVNLSSTKLTLLQRKLQPAAMYIEIKVRSIPDHYFKGFWSEWSPSYFRTPEI</p>

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NNSSGEMDPILLTISILSFFSVALLVILACVLWKKRIKPIVWPSLPDHKKTLEHLCKKPR
 KNLNVSFNPESFLDCQIHRVDDIQARDEVEGFLQDTFPQQLEESEKQRLGGDVQSP
 NCPSEVVITPESFGRDSSLTCLAGNVSACDAPILSSSGSLDCRESGKNGPHVYQDL
 LLSLGTNSTLPPPFSLQSGILTLNPVAQQQPILTSLGSNQEEAYVTMSSFYQNNQ

Applications	Antibody Production Functional Study Compound Screening
Usage	Heating may cause protein aggregation. Please do not heat this product before electrophoresis.
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION

Gene Name	IL7R interleukin 7 receptor [Homo sapiens]
Official Symbol	IL7R
Synonyms	IL7R; interleukin 7 receptor; interleukin-7 receptor subunit alpha; CD127; IL-7RA; CD127 antigen; IL-7R subunit alpha; IL-7 receptor subunit alpha; interleukin 7 receptor alpha chain; interleukin 7 receptor isoform H5-6; ILRA; IL7RA; CDW127; IL-7R-alpha;
Gene ID	3575

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mRNA Refseq	NM_002185
Protein Refseq	NP_002176
MIM	146661
UniProt ID	P16871

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