Active Recombinant Human Interleukin 7 Receptor, MIgG2a Fc-tagged

Cat. No. IL7R-301H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human IL-7 (AAH47698.1)(Asp26-His177) is fused to the N-terminus of the Fc region of mouse IgG2a was expressed in CHO cell.
Species	Human
Source	CHO
ProteinLength	26-177 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). Alternatively spliced transcript variants have been found for this gene
Form	Lyophilized from 0.2μm-filtered solution in PBS.
Bio-activity	Hematopoietic growth factor capable of stimulating the proliferation of lymphoid

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	progenitors. It is important for proliferation during certain stages of B-cell maturation.
Molecular Mass	43KDa (monomer)
AA Sequence	Asp26-His177
Endotoxin	<0.06 eu/μg="" as="" determined="" by="" lal="">
Purity	>98%, by SDS-PAGE under reducing conditions.
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Reconstitution	Reconstitute at 100μg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

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
mRNA Refseq	NM_002185

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Protein Refseq	NP_002176
MIM	146661
UniProt ID	P16871
Chromosome Location	5p13
Pathway	Cytokine Signaling in Immune system, organism-specific biosystem; 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; Immune System, organism-specific biosystem;
Function	antigen binding; interleukin-7 receptor activity; protein binding; receptor activity;

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