

## Active Recombinant Human IL2RA

Cat. No. IL2RA-4951H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human IL2RA was expressed in insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	<p>The interleukin 2 (IL2) receptor alpha (IL2RA) and beta (IL2RB) chains, together with the common gamma chain (IL2RG), constitute the high-affinity IL2 receptor. Homodimeric alpha chains (IL2RA) result in low-affinity receptor, while homodimeric beta (IL2RB) chains produce a medium-affinity receptor. Normally an integral-membrane protein, soluble IL2RA has been isolated and determined to result from extracellular proteolysis. Alternately-spliced IL2RA mRNAs have been isolated, but the significance of each is presently unknown. Mutations in this gene are associated with interleukin 2 receptor alpha deficiency.</p>
<b>Form</b>	Lyophilized from PBS. Reconstitute with PBS, pH 7.2 to a concentration of 0.1 - 1.0 mg/ml.
<b>Bio-activity</b>	Determined by its ability to increase the proliferation effect of IL-2 in Mouse CTLL-2 cells. In the presence of 1 ng/ml of recombinant IL-2, the expected ED50 for this effect is between 0.5 - 1.5 ug/ml.
<b>Molecular Mass</b>	31 kDa
<b>AA Sequence</b>	ELCDDDPPEI PHATFKAMAY KEGTMLNCEC KRGFRRIKSG SLYMLCTGNS

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SHSSWDNQCQ CTSSATRNTT KQVTPQPEEQ KERKTTEMQS PMQPVDQASL  
 PGHCREPPPW ENEATERIYH FVVGQMVYYQ CVQGYRALHR GPAESVCKMT  
 HGKTRWTQPQ LICTGEMETS QFPGEEKPQA SPEGRPESET SCLVTTTDFQ  
 IQTEMAATME TSIFTEYQ.

<b>Endotoxin</b>	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
<b>Purity</b>	> 98% pure
<b>Applications</b>	User optimized
<b>Storage</b>	Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	IL2RA interleukin 2 receptor, alpha [ Homo sapiens (human) ]
<b>Official Symbol</b>	IL2RA
<b>Synonyms</b>	IL2RA; interleukin 2 receptor, alpha; IL2R; interleukin-2 receptor subunit alpha; CD25; TAC antigen; IL-2R subunit alpha; IL-2 receptor subunit alpha
<b>Gene ID</b>	<a href="#">3559</a>
<b>mRNA Refseq</b>	<a href="#">NM_000417</a>
<b>Protein Refseq</b>	<a href="#">NP_000408</a>
<b>MIM</b>	<a href="#">147730</a>

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<b>UniProt ID</b>	P01589
<b>Chromosome Location</b>	10p15-p14
<b>Pathway</b>	Arf6 trafficking events; Calcineurin-regulated NFAT-dependent transcription in lymphocytes; Cytokine-cytokine receptor interaction
<b>Function</b>	drug binding; interleukin-2 binding; interleukin-2 receptor activity

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