Active Recombinant Human IL2RA

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

SPECIFICATION

Product Overview	Recombinant Human IL2RA was expressed in insect cells.
Species	Human
Source	Insect Cells
Description	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 proteolyisis. 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.
Form	Lyophilized from PBS. Reconstitute with PBS, pH 7.2 to a concentration of 0.1 - 1.0 mg/ml.
Bio-activity	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.
Molecular Mass	31 kDa
AA Sequence	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 TSIFTTEYQ.
Endotoxin	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Purity	> 98% pure
Applications	User optimized
Storage	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

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

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

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