

# Active Recombinant Human IL2RA Protein (205 aa), His-tagged

Cat. No. IL2RA-179I Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Recombinant Human Interleukin-2 Receptor  $\alpha$  (IL-2 R  $\alpha$ ), His produced in HEK 293 cells is a polypeptide chain containing 205 amino acids. A fully biologically active molecule, rhIL-2 R  $\alpha$  has a molecular mass of 42 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.

**Species** Human

**Source** HEK293

**ProteinLength** 205

**Description** Interleukin-2 receptor (IL-2R) is a heterotrimeric protein expressed on the surface of certain immune cells, such as lymphocytes, that binds and responds to the cytokine IL-2. The IL-2R is made up of 3 subunits - alpha ( $\alpha$ ), beta ( $\beta$ ) and gamma ( $\gamma$ ). The  $\alpha$  and  $\beta$  chains are involved in binding IL-2, while signal transduction following cytokine interaction is carried out by the  $\gamma$ -chain, along with the  $\beta$  subunit. The  $\beta$  and  $\gamma$  chains of the IL-2R are members of the type I cytokine receptor family. IL-2R has a high binding affinity to IL-2 and is expressed by antigen-activated T lymphocytes (T cells). IL-2 R $\alpha$  is also known as CD25, p55, and Tac (activated T cell) antigen.

**Form** Sterile Filtered White lyophilized (freeze-dried) powder.

**Bio-activity** Determined by its ability to increase the proliferation effect of IL-2 in murine CTLL-2 cells. In the presence of 1 ng/mL of recombinant IL-2, ED50 for this effect is < 1.5

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	µg/mL.
<b>Molecular Mass</b>	42 kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	HHHHHHHHELCDDDPPEIPHATFKAMAYKEGTMLNCECKRGFRRIKSGSLYMLCTG NSSHSSWDNQCCQCTSSATRNTTKQVTPQPPEEQKERKTTEMQSPMQPVDQASLPG HCREPPPWENEATERIYHFVVGQMVYYQCVQGYRALHRGPAESVCKMTHGKTRW TQPQLICTGEMETSQFPGEKPKQASPEGRPESETSC
<b>Endotoxin</b>	< 0.2 EU/µg, determined by LAL method.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE and HPLC.
<b>Storage</b>	Lyophilized recombinant Human Interleukin-2 Receptor α remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human Interleukin-2 Receptor α should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
<b>Storage Buffer</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/mL.

## GENE INFORMATION

<b>Gene Name</b>	IL2RA interleukin 2 receptor, alpha [ Homo sapiens ]
<b>Official Symbol</b>	IL2RA
<b>Synonyms</b>	IL2RA; interleukin 2 receptor, alpha; IL2R; interleukin-2 receptor subunit alpha; CD25; p55; IL2-RA; IL-2-RA; TAC antigen; IL-2R subunit alpha; IL-2 receptor subunit alpha; TCGFR; IDDM10;

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Gene ID	3559
mRNA Refseq	NM_000417
Protein Refseq	NP_000408
MIM	147730
UniProt ID	P01589

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