

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 α (IL-2 R α), His produced in HEK 293 cells is a polypeptide chain containing 205 amino acids. A fully biologically active molecule, rhIL-2 R α 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 (α), beta (β) and gamma (γ). The α and β chains are involved in binding IL-2, while signal transduction following cytokine interaction is carried out by the γ -chain, along with the β subunit. The β and γ 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 α 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.
Molecular Mass	42 kDa, observed by reducing SDS-PAGE.
AA Sequence	HHHHHHHHELCDDDPPEIPHATFKAMAYKEGTMLNCECKRGFRRIKSGSLYMLCTG NSSHSSWDNQCQCTSSATRNTTKQVTPQPPEEQKERKTTEMQSPMQPVDQASLPG HCREPPPWENEATERIYHFVVGQMVYYQCVQGYRALHRGPAESVCKMTHGKTRW TQPQLICTGEMETSQFPGEKPKQASPEGRPESETSC
Endotoxin	< 0.2 EU/µg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	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.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/mL.

GENE INFORMATION

Gene Name	IL2RA interleukin 2 receptor, alpha [Homo sapiens]
Official Symbol	IL2RA
Synonyms	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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