

IL-2R alpha Protein, Human (HEK293, His)

Cat. No.:	HY-P70628
Synonyms:	IL-2R alpha; IL-2RA; Interleukin-2 receptor subunit alpha; CD25; p55; TAC antigen; IL2-RA; IL-2R subunit alpha; IL-2-RA; IL-2 receptor subunit alpha
Species:	Human
Source:	HEK293
Accession:	P01589 (E22-C213)
Gene ID:	3559
Molecular Weight:	Approximately 44.0 kDa

PROPERTIES

AA Sequence	<pre> E L C D D D P P E I P H A T F K A M A Y K E G T M L N C E C K R G F R R I K S G S L Y M L C T G N S S H S S W D N Q C Q C T S S A T R N T T K Q V T P Q P E E Q K E R K T T E M Q S P M Q P V D Q A S L P G H C R E P P P W E N E A T E R I Y H F V V G Q M V Y Y Q C V Q G Y R A L H R G P A E S V C K M T H G K T R W T Q P Q L I C T G E M E T S Q F P G E E K P Q A S P E G R P E S E T S C </pre>
Biological Activity	2 µg/mL (100 µL/well) of immobilized Human IL-2RA-His can bind Human IL-2-His-Avi with an ED ₅₀ value of 4.07 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 10 mM HEPES, 50 mM NaCl, pH 7.2.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	IL-2R alpha, a receptor for interleukin-2, plays a pivotal role in the regulation of immune tolerance by modulating the activity of regulatory T cells (TREGs). TREGs function to suppress the activation and expansion of autoreactive T-cells, contributing to immune homeostasis. The receptor exists in three distinct forms: a high-affinity dimer, an intermediate-affinity monomer (beta subunit), and a low-affinity monomer (alpha subunit). Both high and intermediate affinity forms can associate with a gamma subunit, highlighting the multifaceted nature of IL-2R in mediating immune responses.
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Caution: Product has not been fully validated for medical applications. For research use only.

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