

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

Cat. No.:	HY-P70629
Synonyms:	IL-2R alpha; IL-2RA; IL-2 R alpha; 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:	HEK 293
Accession:	P01589(E22-C213)
Gene ID:	3559
Molecular Weight:	60-80 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	10 µg/mL (100 µL/well) of immobilized Human IL-2RA-Fc can bind Human IL-2-His with an ED50 value of 0.46 µg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Reconstitute at 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. 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-2 binds with high affinity to a receptor consisting of three subunits: IL-2R α (CD25), IL-2R β (CD122) and γ (CD132). Alpha subunit plays a critical role in regulating the IL-2-mediated responses by modulating the affinity of the IL-2R for the ligand. Then, two β and γ subunits initiate the signal transduction process via cytoplasmic tails ^[1] .
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REFERENCES

[1]. Shahdordizadeh M, et al. Design, isolation and evaluation of the binding efficiency of a DNA aptamer against interleukin 2 receptor alpha, in vitro. Int Immunopharmacol. 2017 Dec;53:96-104.

Caution: Product has not been fully validated for medical applications. For research use only.

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