

IL-5R alpha Protein, Human (HEK293, His)

Cat. No.:	HY-P72539
Synonyms:	Interleukin-5 receptor subunit alpha; IL-5R-alpha; IL-5RA; CDw125; CD125; IL5R
Species:	Human
Source:	HEK293
Accession:	Q01344 (D21-E335)
Gene ID:	3568
Molecular Weight:	45-60 kDa

PROPERTIES

AA Sequence	<pre> D L L P D E K I S L L P P V N F T I K V T G L A Q V L L Q W K P N P D Q E Q R N V N L E Y Q V K I N A P K E D D Y E T R I T E S K C V T I L H K G F S A S V R T I L Q N D H S L L A S S W A S A E L H A P P G S P G T S I V N L T C T T N T T E D N Y S R L R S Y Q V S L H C T W L V G T D A P E D T Q Y F L Y Y R Y G S W T E E C Q E Y S K D T L G R N I A C W F P R T F I L S K G R D W L A V L V N G S S K H S A I R P F D Q L F A L H A I D Q I N P P L N V T A E I E G T R L S I Q W E K P V S A F P I H C F D Y E V K I H N T R N G Y L Q I E K L M T N A F I S I I D D L S K Y D V Q V R A A V S S M C R E A G L W S E W S Q P I Y V G N D E </pre>
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	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	<p>IL-5R alpha is a type I cytokine receptor consisting of two distinct polypeptide chains, alpha and beta. alpha chain is a membrane-penetrating glycoprotein that specifically binds IL-5 and beta chain converts low affinity IL-5R to high affinity IL-5R, forming a heterodimeric receptor complex^[1].</p> <p>IL-5R alpha can induce the activation of multiple intracellular signalling pathways, including JAK/STAT, RAF/MAP, Ras-Raf-</p>
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ERK and phosphatidylinositol 3-kinase when its binds with IL-5^[2].

IL-5R alpha is expressed on eosinophils, basophils and B cells and affects cell survival, apoptosis, differentiation and chemotaxis^[3].

REFERENCES

[1]. S Takaki, et al. A critical cytoplasmic domain of the interleukin-5 (IL-5) receptor alpha chain and its function in IL-5-mediated growth signal transduction. *Mol Cell Biol.* 1994 Nov;14(11):7404-16.

[2]. R P de Groot, et al. Regulation of proliferation, differentiation and survival by the IL-3/IL-5/GM-CSF receptor family. *Cell Signal.* 1998 Oct;10(9):619-31.

[3]. S C Barry, et al. Analysis of interleukin 5 receptors on murine eosinophils: a comparison with receptors on B13 cells. *Cytokine.* 1991 Jul;3(4):339-47.

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

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