

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

<b>Cat. No.:</b>	HY-P78162
<b>Synonyms:</b>	CD125; CDw125CD125; HSIL5R3; IL-5 R alpha; IL-5R subunit alpha; IL5R; IL5RA; IL-5Ra; MGC26560
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q01344 (D21-E335)
<b>Gene ID:</b>	3568
<b>Molecular Weight:</b>	Approximately 38.7 kDa

### PROPERTIES

<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. When immobilized Human IL-5 His at 0.5 µg/mL (100µL/Well) , can bind biotinylated Human IL-5 R alpha His and the EC <sub>50</sub> is 0.12 ug/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<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<sup>[1]</sup>.</p> <p>IL-5R alpha can induce the activation of multiple intracellular signalling pathways, including JAK/STAT, RAF/MAP, Ras-Raf-ERK and phosphatidylinositol 3-kinase when its binds with IL-5<sup>[2]</sup>.</p> <p>IL-5R alpha is expressed on eosinophils, basophils and B cells and affects cell survival, apoptosis, differentiation and chemotaxis<sup>[3]</sup>.</p>
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### REFERENCES

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- [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):7404-14.
- [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):619-29.
- [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):339-45.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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