

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

Cat. No.:	HY-P78471
Synonyms:	CD125; CDw125CD125; HSIL5R3; IL-5 R alpha; IL-5R subunit alpha; IL5R; IL5RA; IL-5Ra; MGC26560
Species:	Human
Source:	HEK293
Accession:	Q01344 (D21-E335)
Gene ID:	3568
Molecular Weight:	50-68 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
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.
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-ERK and phosphatidylinositol 3-kinase when its binds with IL-5^[2].</p> <p>IL-5R alpha is expressed on eosinophils, basophils and B cells and affects cell survival, apoptosis, differentiation and chemotaxis^[3].</p>
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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):7404-15.
- [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):619-30.

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

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