

## IL-5R alpha Protein, Human (Q01344-2, HEK293, His)

Cat. No.:	HY-P74800
Synonyms:	Interleukin-5 receptor subunit alpha; IL-5RA; CD125; IL5R
Species:	Human
Source:	HEK293
Accession:	Q01344-2 (D21-R335)
Gene ID:	3568
Molecular Weight:	45-50 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants 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 <sub>2</sub> 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<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

- [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):7404-18.
- [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):619-33.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA