

Recombinant Human IL5RA/IL-5 R γ Protein (Fc Tag)

Catalog Number:PKSH032652



Note: Centrifuge before opening to ensure complete recovery of vial contents.

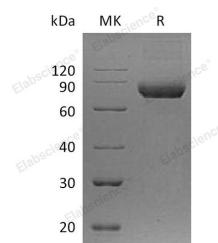
Description

| | |
|------------------------------------|---|
| Synonyms | Interleukin-5 receptor subunit alpha;IL-5 receptor subunit alpha;IL-5R subunit alpha;IL-5R-alpha;IL-5RA;CDw125;CD125;IL5RA;IL5R |
| Species | Human |
| Expression Host | HEK293 Cells |
| Sequence | Asp21-Glu335 |
| Accession | Q01344 |
| Calculated Molecular Weight | 62.5 kDa |
| Observed molecular weight | 70-85 kDa |
| Tag | C-Fc |

Properties

| | |
|-----------------------|--|
| Purity | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per μ g of the protein as determined by the LAL method. |
| Storage | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual. |
| Reconstitution | Please refer to the printed manual for detailed information. |

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Interleukin-5 Receptor alpha (IL-5R α ; CD125) is a 60 kDa hematopoietin receptor that plays a dominant role in eosinophil biology. Mature human IL-5 R α consists of a 322 aa extracellular domain (ECD) with a WSxWS motif and a four cysteine motif; a 20 aa transmembrane segment; and a 58 aa cytoplasmic domain. Within the ECD; human IL-5R α shares 71% aa sequence identity with mouse and rat IL-5 R α . Alternate splicing of human IL-5 R α generates soluble secreted forms which function as IL-5 antagonists. The high affinity receptor for IL-5 is a complex that consists of the ligand binding IL-5 R α and the transmembrane common β chain (β c/CD131) which is shared with the receptor complexes for IL-3 and GMCSF. IL-5 R α binds IL-5 at low affinity and then associates with preformed β c oligomers to form the

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signaling competent receptor complex. IL-5 stimulation of CD34+ hematopoietic progenitor cells induces the up-regulation of transmembrane IL-5R α followed by eosinophilic differentiation and activation.

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