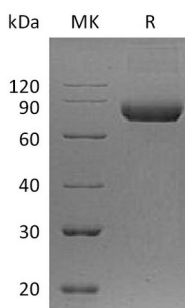


Summary

| | |
|---------------------------------|--|
| Name | IL-5 R alpha/CD125/Interleukin-5 Receptor Subunit Alpha |
| Purity | Greater than 95% as determined by reducing SDS-PAGE |
| Endotoxin level | <1 EU/μg as determined by LAL test. |
| Construction | Recombinant Human Interleukin-5 Receptor Subunit Alpha is produced by our Mammalian expression system and the target gene encoding Asp21-Glu335 is expressed with a human IgG1 Fc tag at the C-terminus. |
| Accession # | Q01344 |
| Host | Human Cells |
| Species | Human |
| Predicted Molecular Mass | 62.5 KDa |
| Formulation | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. |
| Stability&Storage | Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles. |
| Reconstitution | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

SDS-PAGE image



Background

Product Name: Recombinant Human IL-5RA (C-Fc)
Catalog #: PHH1011



Alternative Names

Interleukin-5 receptor subunit alpha; IL-5 receptor subunit alpha; IL-5R subunit alpha; IL-5R-alpha; IL-5RA; CDw125; CD125; IL5RA; IL5R

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 GM-CSF. IL-5 R α binds IL-5 at low affinity and then associates with preformed β c oligomers to form the 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.

Note

For Research Use Only , Not for Diagnostic Use.