

**Product Name: Recombinant Mouse IL-5RA (C-6His)**  
**Catalog #: PHM1010**

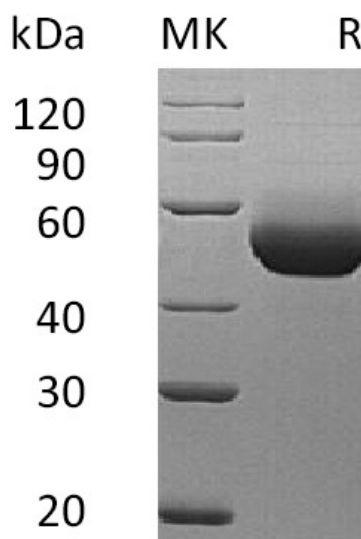


## Summary

<b>Name</b>	IL-5 R alpha/CD125/Interleukin-5 Receptor Subunit Alpha
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	Recombinant Mouse Interleukin-5 Receptor Subunit Alpha is produced by our Mammalian expression system and the target gene encoding Asp18-His339 is expressed with a 6His tag at the C-terminus.
<b>Accession #</b>	P21183
<b>Host</b>	Human Cells
<b>Species</b>	Mouse
<b>Predicted Molecular Mass</b>	37.6 KDa
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of PBS, 5% Trehalose, pH 7.4.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	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.
<b>Reconstitution</b>	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

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### Alternative Names

Interleukin-5 receptor subunit alpha; IL-5 receptor subunit alpha; IL-5R subunit alpha; IL-5R-alpha; IL-5RA; CD125; IL5ra; IL5r

### Background

Interleukin 5 Receptor alpha (IL-5 R $\alpha$ ), also known as CD125, is a hematopoietin receptor that plays a dominant role in eosinophil biology. Mature mouse IL-5 R $\alpha$  consists of a 322 amino acid (aa) extracellular domain (ECD) with a WSxWS motif and a four cysteine motif, a 22 aa transmembrane segment, and a 54 aa cytoplasmic domain. The high affinity receptor for IL-5 is a complex that consists of the ligand binding IL-5 R $\alpha$  and the transmembrane common  $\beta$  chain ( $\beta$ c/CD131) which is shared with the receptor complexes for IL-3 and GM-CSF. IL-5 R $\alpha$  binds IL-5 at low affinity and then associates with preformed  $\beta$ c oligomers to form the signaling-competent receptor complex. IL-5 stimulation of CD34<sup>+</sup> hematopoietic progenitor cells induces the up-regulation of transmembrane IL-5 R $\alpha$  followed by eosinophilic differentiation and activation. IL-5 R $\alpha$  also promotes the differentiation of basophils and B cells. Exposure of mature eosinophils to IL-5 attenuates their IL-5 responsiveness by inducing the down-regulation of surface IL-5 R $\alpha$  and increased production of soluble IL-5 R $\alpha$ .

### Note

For Research Use Only , Not for Diagnostic Use.