

**Catalog No.: RP00099** **Recombinant**

Species	Gene ID	Swiss Prot
Human	3566	P24394

C-His

IL4R:CD124:IL-4RA:IL4RA

<b>Source</b>	<b>Purification</b>
HEK293 cells	≥ 85 % as determined by SDS-PAGE

Calculated MW	Observed MW
24.74 kDa	45-52 kDa

< 0.1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22  $\mu\text{m}$  filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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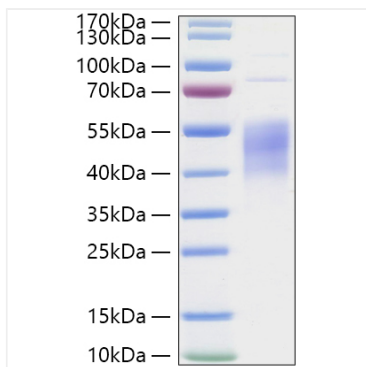
This protein is alpha chain of the interleukin-4 receptor, a type I transmembrane protein that can bind interleukin 4 and interleukin 13 to regulate IgE production. The encoded protein also can bind interleukin 4 to promote differentiation of Th2 cells. A soluble form of the encoded protein can be produced by proteolysis of the membrane-bound protein, and this soluble form can inhibit IL4-mediated cell proliferation and IL5 upregulation by T-cells.

Recombinant Human IL-4R alpha/CD124 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly24-His232) of human IL4R/CD124 (Accession #NP\_000409.1) fused with a 6xHis tag at the C-terminus.

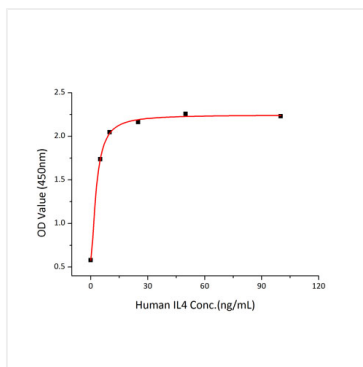
Measured by its binding ability in a functional ELISA. Immobilized recombinant human IL4R at 2 µg/mL (100 µL/well) can bind recombinant human IL4. The ED<sub>50</sub> of recombinant human IL4R is 2-4 ng/mL.

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.  
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.  
Avoid repeated freeze/thaw cycles.

## Validation Data



Recombinant Human IL-4R alpha/CD124  
Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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