

Recombinant Human IL-4RA/CD124 Protein

Catalog No.: RP00099 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3566	P24394

Tags

C-His

Synonyms

IL4R;CD124;IL-4RA;IL4RA

Product Information

Source	Purification
HEK293 cells	> 87% by SDS-PAGE.

Endotoxin

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

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

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.

Contact

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Background

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.

Basic Information

Description

Recombinant Human IL-4RA/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.

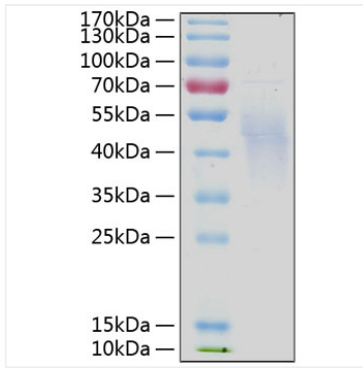
Bio-Activity

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 ED₅₀ of recombinant human IL4R is 2-4 ng/mL.

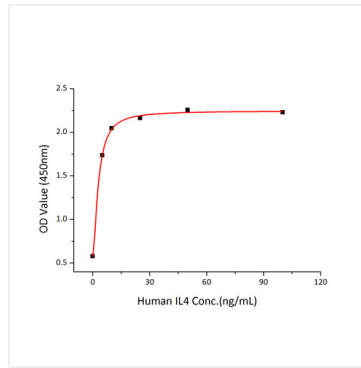
Storage

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-4RA/CD124 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 42-52kDa.



Immobilized recombinant human IL4R at 2 $\mu\text{g/mL}$ (100 μL /well) can bind recombinant human IL4. The ED_{50} of recombinant human IL4R is 2-4 ng/mL.