Recombinant Human IL-4R alpha/CD124 Protein

Catalog No.: RP00099

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Sequence Information

Species
Human

Gene ID
3566

Swiss Prot
P24394

Tags
C-His

Synonyms
IL4R,CD124,IL-4RA,IL4RA

Product Information

Source
HEK293 cells

Purification
≥ 85 % as determined by SDS-PAGE.

Calculated MW
24.74 kDa

Observed MW
40-55 kDa

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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-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 6×His tag at the C-terminus.

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 ED_{50} of recombinant human IL4R is 2-4 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

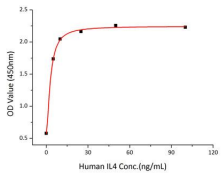
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

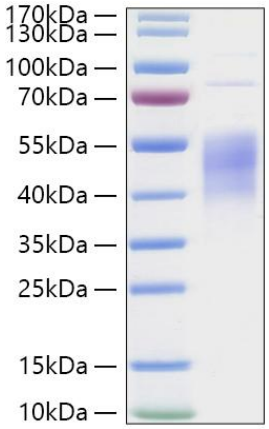
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Validation Data



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



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