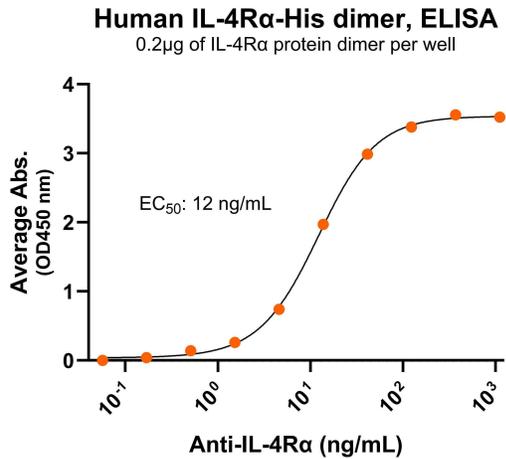
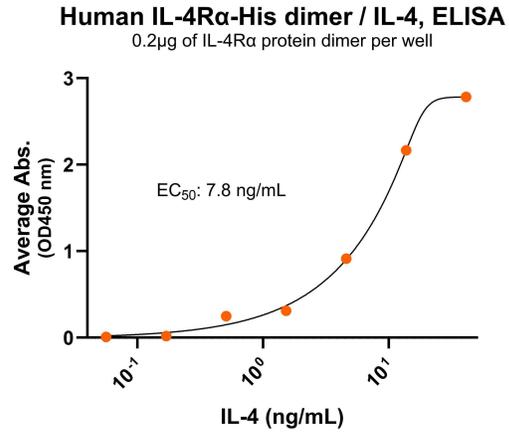


### Bioactivity – Antibody Binding



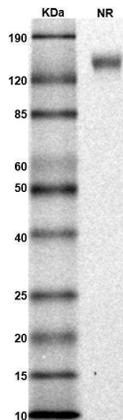
Immobilized human IL-4Rα dimer, His-tag (CSP-25219-01) at 2 µg/mL (100 µL/well) can bind anti-human IL-4Rα monoclonal antibody with half maximal effective concentration (EC50) range of 6-24 ng/mL (QC tested).

### Bioactivity – Ligand Binding



Immobilized human IL-4Rα dimer, His-tag (CSP-25219-01) at 2 µg/mL (100 µL/well) can bind human IL-4 with half maximal effective concentration (EC50) range of 3.9-15.6 ng/mL (QC tested).

### SDS-PAGE



MW: Molecular Weight marker reduced condition  
 NR: IL-4Rα dimer under non-reduced condition

The migration range of the heterodimer protein with glycosylation under non-reducing condition is between 120 and 190 kDa on SDS PAGE.



Bioactive, Human IL4Ra Protein Dimer, His Tag  
Product Code: CSP-25219-01  
For Research Use Only (RUO)

**Expression Host**  
HEK293T

**Purity**  
Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition

**Protein Construct**  
IL-4R $\alpha$  dimer protein contains a IL-4R $\alpha$  extracellular domain (UniProt# P24394) fused with a proprietary cis-dimer motif followed by a His tag at the C-terminus. Expressed in HEK293T cell line.

**SDS-Page Molecular Weight**  
64 kDa. The migration range of the heterodimer protein with glycosylation under non-reducing condition is between 120 and 190 kDa on SDS PAGE.

**Shipping Conditions**  
Frozen Dry Ice

**Protein Name**  
IL4Ra

**Alternate Name(s)**  
IL4R, cluster of differentiation 124, CD124, IL-4RA, IL4RA, Interleukin-4 receptor

**Amino Acid Range**  
M26-H232

**Formulation**  
0.22 $\mu$ m filtered PBS, pH 7.4

**Stability & Storage**  
-80°C

## Background

Human interleukin 4 receptor alpha (IL-4R $\alpha$ ) is a Type 1 transmembrane and a Type 1 cytokine receptor. IL-4R $\alpha$  is also known as cluster of differentiation 124 (CD124). IL-4R $\alpha$  is a key component in interleukin 4 (IL-4) and IL-13 cytokine signaling involved in immune regulation, particularly in Th2 immune responses, allergy, and asthma. IL-4R $\alpha$  contains an extracellular domain with an overall L shape organized in two covalently linked domains: an h-type immunoglobulin fold (D1) and a standard fibronectin type III (FN III)-like topology (D2). IL-4R $\alpha$  can bind IL-4 and IL-13 and allergic inflammation is largely driven by IL-4 and IL-13 signaling through IL-4R $\alpha$ , making IL-4R $\alpha$  a promising therapeutic target for allergic diseases.