## Human IL-4R/CD124 (His Tag) recombinant protein

Catalog Number: 502315



## **General Information**

#### Gene Name Synonym

Soluble interleukin-4 receptor subunit alpha; IL-4-binding protein

#### **Protein Construction**

A DNA sequence encoding the human IL4R (NP\_000409.1) precursor (Met 1-His 232) was fused with a polyhistidine tag at the C-terminus.

## **Organism**

Human

## **Expression Host**

**Human Cells** 

## **QC Testing**

## **Activity**

- 1. Measured by its binding ability in a functional ELISA. Immobilized human IL4R-His (Cat:502315) at 10  $\mu$ g/mL (100  $\mu$ l/well) can bind biotinylated human IL4 (Cat:500224). The EC<sub>50</sub> of biotinylated human IL4 is 20.8-48.5 ng/mL.
- 2. Measured by its ability to inhibit IL4 dependent proliferation of TF-1 human erythroleukemic cells. The  $ED_{50}$  for this effect is typically 1-4 ng/ml in the presence of 0.2 ng/ml Recombinant Human IL4.

#### **Purity**

> 98 % as determined by SDS-PAGE

#### **Endotoxin**

< 1.0 EU per  $\mu g$  of the protein as determined by the LAL method

#### **Stability**

Samples are stable for up to twelve months from date of receipt at -70°C

## **Predicted N terminal**

Met 26

#### **Molecular Mass**

The secreted recombinant human IL4R consists of 218 amino acids after cleavage of the signal peptide and predictes a molecular mass of 25.3 kDa. In SDS-PAGE under reducing conditions, it migrates with the apparent molecular mass of 43-48 kDa due to glycosylation.

#### **Formulation**

Lyophilized from sterile PBS, pH 7.4

- 1. 5 % trehalose and mannitol are added as protectants before lyophilization.
- 2. Please contact us for any concerns or special requirements.

## **Usage Guide**

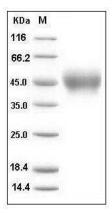
## **Storage**

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

#### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

#### **SDS-PAGE**



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