

# Human CD127/IL-7RA (His & Fc Tag) recombinant protein



Catalog Number: 503420

## General Information

### Gene Name Synonym

CDw127

### Protein Construction

A DNA sequence encoding the human IL7R $\alpha$  (NP\_002176.2) extracellular domain (Met 1-Gly 236) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its ability to bind biotinylated mouse TSLP-his (cat:502535) in functional ELISA.
2. Measured by its binding ability in a functional ELISA. Immobilized human IL7 (Cat:504763) at 10  $\mu\text{g/ml}$  (100  $\mu\text{l/well}$ ) can bind human IL7Ra-Fch, The  $\text{EC}_{50}$  of human IL7Ra-Fch is 15.2-35.6  $\text{ng/ml}$ .

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

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

### Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

### Predicted N terminal

Glu 21

### Molecular Mass

The recombinant human IL7R $\alpha$ /Fc is a disulfide-linked homodimer. The reduced monomer consists of 464 amino acids and has a predicted molecular mass of 53 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh IL7R $\alpha$ /Fc monomer is approximately 65-75 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

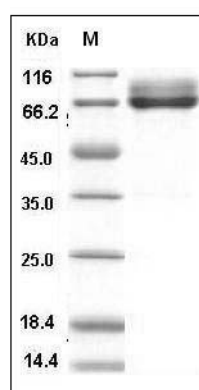
### Storage

Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . 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  $\text{mg/ml}$ . Concentration is measured by UV-Vis.

### SDS-PAGE



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SDS-PAGE