# Human IL-21R (His Tag) recombinant protein

Catalog Number: 500817



#### **General Information**

## Gene Name Synonym

Novel interleukin receptor

#### **Protein Construction**

A DNA sequence encoding the human IL21R (Q9HBE5-1) extracellular domain (Met 1-Pro 236) was expressed, with a polyhistidine tag at the C-terminus.

### **Organism**

Human

# **Expression Host**

**Human Cells** 

# **QC Testing**

# **Activity**

- 1. Measured by its ability to bind human IL-21 in a functional ELISA.
- 2. Measured by its ability to inhibit IL21 induced Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The  $ED_{50}$  for this effect is typically 1-5 ng/ml in the presence of 10 ng/ml of recombinant human IL21.
- 3. Measured by its ability to inhibit IL21 induced Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The  $ED_{50}$  for this effect is typically 50-200 pg/mL in the presence of 1 ng/ml of recombinant human IL21.

# **Purity**

> 92 % 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**

Cys 20

#### **Molecular Mass**

The recombinant human IL21R consists of 228 amino acids and predictes a molecular mass of 26.5 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh IL21R is approximately 42-46 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

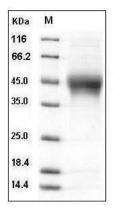
Adding sterile water, prepare a stock solution of  $0.25\ mg/ml$ . Concentration is measured by UV-Vis.

## **SDS-PAGE**

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 $\begin{array}{l} \mbox{Human IL-21R\,/\,Interleukin-21\ Receptor\ Protein} \\ \mbox{(His\ Tag)\ SDS-PAGE} \end{array}$