

## General Information

### Gene Name Synonym

Za11

### Protein Construction

A DNA sequence encoding the mature form of human IL-21 isoform 1 (Q9HBE4-1) (Gln 23-Ser 155) was expressed and purified, with an initial Met.

### Organism

Human

### Expression Host

E. coli

## QC Testing

### Activity

1. Measured by its ability to bind human IL-21R in a functional ELISA.
2. Measured by its ability to induced Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED<sub>50</sub> for this effect is typically 0.4-2 ng/ml.

### Purity

> 92 % as determined by SDS-PAGE

### Endotoxin

Please contact us for more information.

### Stability

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

### Predicted N terminal

Met

### Molecular Mass

The recombinant human IL-21 consisting of 134 amino acids and has a calculated molecular mass of 15.6 kDa. It migrates as an approximately 17 kDa band in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 20mM NaAc, 150mM NaCl, pH 5.5

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

## Usage Guide

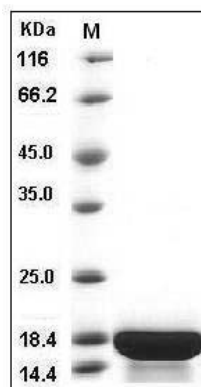
### Storage

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



Human Interleukin-21 / IL-21 Protein SDS-PAGE