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 μg of the protein as determined by the LAL method

Stability

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

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℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
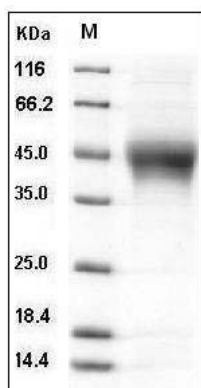
Reconstitution

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

SDS-PAGE

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Human IL-21R / Interleukin-21 Receptor Protein (His Tag) SDS-PAGE