
Recombinant human IL-21 protein (Active, HEK293)

Catalog Number: bs-48033P

Concentration: >0.5 mg/ml

AA Seq: 1-132/162

Detected MW: 15 kDa

Tags: Tag free

Activity: Yes

Endotoxin: <0.5 EU/μg as determined by LAL.

Purity: >95% as determined by SDS-PAGE

Purification: AC

Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -80°C under sterile conditions after reconstitution.

Background: IL-21 is a typical family I cytokine with broad pleiotropic actions and is primarily produced by T follicular helper cells, Th17, and natural killer T cells in response to antigenic stimulation. IL-21 generally enhances antigen-specific responses of immune cells. It controls the activation, proliferation, differentiation, cytotoxicity, and survival of various target immune cells. Additionally, IL-21 promotes the anti-tumor activity of CD8+ T-cells and NK cells. IL-21 elicits its effect through binding to IL-21R, which also contains the gamma chain found in other cytokine receptors such as IL-2, IL-4, IL-7, IL-9 and IL-15. IL-21/IL-21R interaction triggers a cascade of events, which includes activation of the tyrosine kinases JAK1 and JAK3, followed by activation of the transcription factors STAT1 and STAT3. Recombinant Human IL-21 is a 15.4 kDa protein consisting of 132 amino acid residues.