

Datasheet for ABIN6809951

IL-21 Protein (AA 30-162) (Fc Tag)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	IL-21 (IL21)
Protein Characteristics:	AA 30-162
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-21 protein is labelled with Fc Tag.

Product Details

Sequence:	AA 30-162
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	IL-21 (IL21)
Alternative Name:	IL-21 (IL21 Products)
Background:	<p>Interleukin-21 (IL-21) is a secreted protein which belongs to the IL-15 / IL-21 family. Interleukin-21 / IL-21 belongs to a family of cytokines that bind to a composite receptor consisting of a private receptor (IL21R) and the common cytokine receptor gamma chain (gamma(C)).</p> <p>Interleukin-21 / IL-21 impacts a number of cell types, including CD8+ memory T cells, NK cells</p>

Target Details

and subsets of CD4 memory T cells. The IL-21R is widely distributed on lympho-haematopoietic cells. IL-21 is a pleiotropic cytokine produced by CD4+ T cells in response to antigenic stimulation. Its action generally enhances antigen-specific responses of immune cells. IL-21 promotes the anti-tumor activity of CD8+ T-cells and NK cells. IL-21 exerts its effect through binding to a specific type I cytokine receptor, IL-21R, which also contains the γ chain (γc) found in other cytokine receptors including IL-2, IL-4, IL-7, IL-9 and IL-15. The 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.

Molecular Weight: 41.9 kDa

NCBI Accession: [NP_068575](#)

Pathways: [JAK-STAT Signaling](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#)

Application Details

Restrictions: For Research Use only

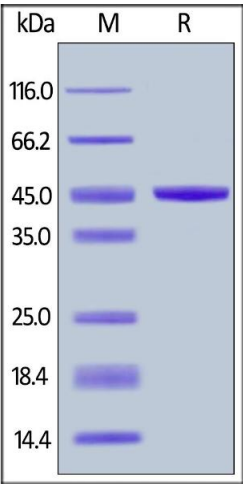
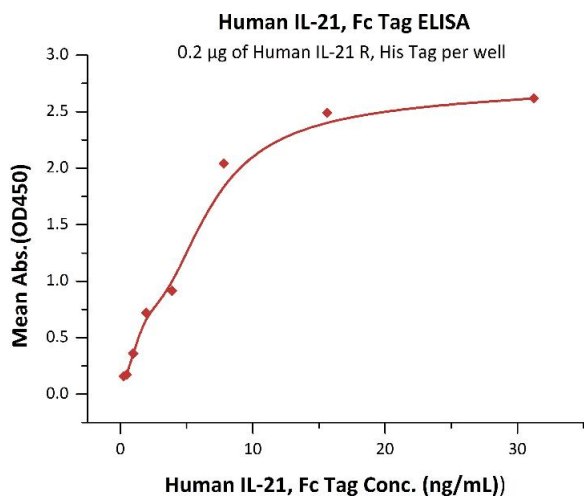
Handling

Format: Lyophilized

Buffer: 50 mM Tris, 100 mM Glycine, 150 mM NaCl, pH 7.5

Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C



ELISA

Image 1. Immobilized Human IL-21 R, His Tag (ABIN2181372,ABIN2181371) at 2 µg/mL (100 µL/well) can bind Human IL-21, Fc Tag (ABIN6731256,ABIN6809951) with a linear range of 0.2-8 ng/mL (QC tested).

SDS-PAGE

Image 2. Human IL-21, Fc Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .