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# IL-21 Protein (AA 30-162)





#### Go to Product page

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Quantity:	50 μg
Target:	IL-21 (IL21)
Protein Characteristics:	AA 30-162
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active

# Product Details

Purpose:	Human IL-21 Protein, Tag Free, low endotoxin (HPLC verified)
Purity:	>98 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 0.01 EU per µg by the LAL method.

## **Target Details**

Target:	IL-21 (IL21)
Alternative Name:	IL-21 (IL21 Products)
Background:	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)).
	Interleukin-21 / IL-21 impacts a number of cell types, including CD8+ memory T cells, NK cells
	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  $\gamma$  chain ( $\gamma$ c) 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:	15.5 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	

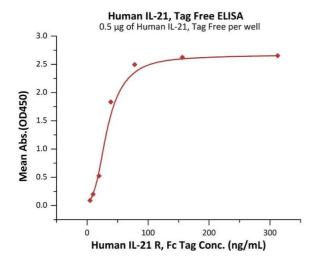
### **Application Details**

Restrictions: For Research Use only

# Handling

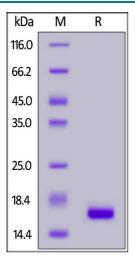
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Storage:	-20 °C

#### **Images**



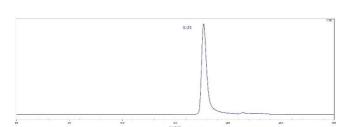
#### **ELISA**

**Image** 1. Immobilized Human IL-21, Tag Free (ABIN6992391) at  $5 \mu g/mL$  (100  $\mu L/well$ ) can bind Human IL-21 R, Fc Tag (ABIN2181374,ABIN2181373) with a linear range of 5-39 ng/mL (Routinely tested).



#### **SDS-PAGE**

**Image 2.** Human IL-21, Tag Free on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 98%.



#### **High Pressure Liquid Chromatography**

**Image 3.** The purity of Human IL-21, Tag Free (ABIN6992391) was greater than 98 % as determined by .

Please check the product details page for more images. Overall 4 images are available for ABIN7199412.