

# Human IL-21, Animal-Free Recombinant Protein, PeptoTech®

## Product Details

Size	50 µg
Species	Human
Published Species	Human, Mouse
Expression system	E. coli
Amino acid sequence	MQDRHMIRMRLQLIDIVDQLK NYVNDLVPEF LPAPEDVETN CEWSAFSCFQ KAQLKSANTG NNERIINVSI KKLKRKPPST NAGRQKHRL TCPSCDSYEK KPPKEFLERF KSLQKMIHQ HLSSRTHGSE DS
Molecular weight	15.4 kDa
Class	Recombinant
Type	Protein
Purity	98% by SDS-PAGE gel and HPLC analyses.
Endotoxin concentration	<0.1 EU/µg
Activity	Determined by its ability to stimulate the proliferation of human ANBL-6 cells. The expected ED50 is 0.5 ng/ml, corresponding to a specific activity of 2 x10 <sup>6</sup> units/mg.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage conditions	-20°C

Applications	Tested Dilution	Publications
Functional Assay (Functional)	Assay-dependent	-
In vitro Assay (IV)	-	18 Publications
Miscellaneous PubMed (Misc)	-	2 Publications

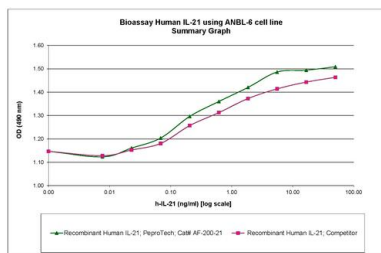
## Product Specific Information

Recombinant Human IL-21 is a 15.4 kDa protein consisting of 132 amino acid residues.

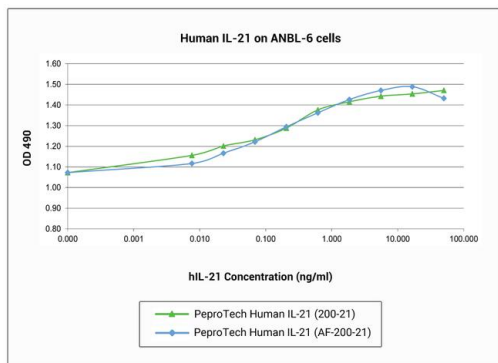
This product is shipped at ambient temperature. For storage, handling and reconstitution information, please see the lot-specific Certificate of Analysis

## Product Images For Human IL-21, Animal-Free Recombinant Protein, PeproTech®

**Human IL-21, Animal-Free Protein (AF-200-21-50UG) in Functional Bioassay analysis of Human IL-21, Animal-Free Recombinant Protein, PeproTech® (Product # AF-200-21-1MG).**



**Human IL-21, Animal-Free Protein (AF-200-21-50UG) in Functional Bioassay analysis of Human IL-21, Animal-Free Recombinant Protein, PeproTech® (Product # AF-200-21-1MG).**



## 20 References

### In vitro Assay (18)

#### Bone research

#### A variant in *IL6ST* with a selective IL-11 signaling defect in human and mouse.

Authors: Schwerd T, Krause F, Twigg SRF, Aschenbrenner D, Chen YH, Borgmeyer U, Müller M, Manrique S, Schumacher N, Wall SA, Jung J, Damm T, Glüer CC, Scheller J, Rose-John S, Jones EY, Laurence A, Wilkie AOM, Schmidt-Arras D, Uhlig HH

Year  
2023

Species  
Human

#### Nature communications

#### Epigenetic modulation of immune synaptic-cytoskeletal networks potentiates T cell-mediated cytotoxicity in lung cancer.

Authors: Weng RR, Lu HH, Lin CT, Fan CC, Lin RS, Huang TC, Lin SY, Huang YJ, Juan YH, Wu YC, Hung ZC, Liu C, Lin XH, Hsieh WC, Chiu TY, Liao JC, Chiu YL, Chen SY, Yu CJ, Tsai HC

Year  
2021

Species  
Human

[View more IV references on thermofisher.cn](#)

### Miscellaneous PubMed (2)

#### Nature communications

#### RNA editing derived epitopes function as cancer antigens to elicit immune responses.

Authors: Zhang M, Fritsche J, Roszik J, Williams LJ, Peng X, Chiu Y, Tsou CC, Hoffgaard F, Goldfinger V, Schoor O, Talukder A, Forget MA, Haymaker C, Bernatchez C, Han L, Tsang YH, Kong K, Xu X, Scott KL, Singh-Jasuja H, Lizee G, Liang H, Weinschenk T, Mills GB, Hwu P

Year  
2018

Species  
Human

#### PLoS one

#### Manufacture of clinical-grade CD19-specific T cells stably expressing chimeric antigen receptor using Sleeping Beauty system and artificial antigen presenting cells.

"AF-200-21 was used in Cell Culture to reveal how the platform technologies of SB-mediated transposition and CAR-dependent propagation on aAPC were adapted for human application."

Authors: Singh H, Figliola MJ, Dawson MJ, Olivares S, Zhang L, Yang G, Maiti S, Manuri P, Senyukov V, Jena B, Kebriaei P, Champlin RE, Huls H, Cooper LJ

Year  
2014

Species  
Human

### More applications with references on thermofisher.cn

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