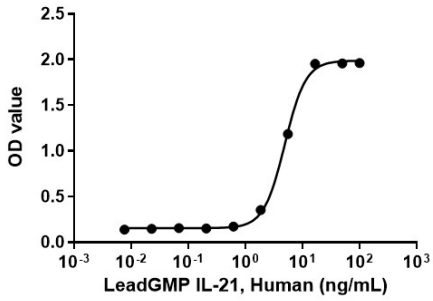
Bioactive | CellTx™ | GMP Grade

IL21 (Human) Recombinant Protein

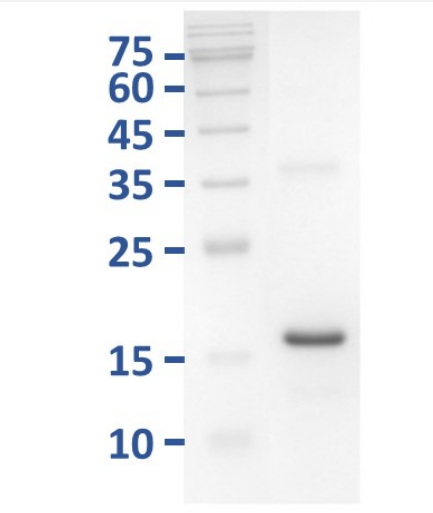
Catalog # P7001 Size 100 ug

Applications



Functional Study

The ED_{50} for this effect is <10 ng/mL, measured by the enhancement of IFN gamma secretion in NK-92 cells.



Specification

Product Description	Human IL21 recombinant protein with polyhistidine tag at the C-terminus expressed in *Escherichia coli*.
Host	Escherichia coli

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Theoretical MW (kDa)	Calculated MW: 16.2
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purification	Ni-NTA chromatography
Purity	> 97% by SDS-PAGE
Endotoxin Level	< 0.05 EU/ug
Activity	The ED_{50} for this effect is < 10 ng/mL, measured by the enhance IFN gamma secretion in NK-92 cells.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Regulatory Status	GMP grade
Storage Buffer	Lyophilized from PBS, pH 8.0. Reconstitute the lyophilized protein in sterile H_2O to a concentration of at least 0.5 mg/mL and incubate the stock solution for at least 20 min to ensure sufficient redissolution. Please use the protein within one month after reconstitution.
Storage Instruction	Store at -20°C for 12 months in lyophilized state. After reconstitution with deionized water, store at -20 or -80°C for 1 month. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study

  The ED_{50} for this effect is <10 ng/mL, measured by the enhancement of IFN gamma secretion in NK-92 cells.

- SDS-PAGE

Gene Info — IL21

Entrez GeneID	59067
Gene Name	IL21
Gene Alias	IL-21, Za11

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Gene Description	interleukin 21
Omim ID	605384
Gene Ontology	Hyperlink
Other Designations	interleukin-21 isoform

Pathway

- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway

Disease

- Addison Disease
- Alopecia Areata
- Arthritis
- Asthma
- Autoimmune Diseases
- Bronchiolitis
- Carcinoma
- Celiac Disease
- Colitis
- Crohn Disease
- Diabetes Mellitus
- Genetic Predisposition to Disease
- Hypersensitivity

- Infant
- Inflammation

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- Lupus Erythematosus
- Multiple Sclerosis
- Prostatic Neoplasms
- Respiratory Syncytial Virus Infections
- Wegener Granulomatosis

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