

## TECHNICAL DATA SHEET

# Recombinant Rat IL-21 (Carrier-free)

Catalog Number: 21-9223

## RPx-Pro™ Recombinant Protein PRODUCT INFORMATION

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Recombinant Rat IL-21 (Carrier-free)

### DESCRIPTION

IL-21 is a pleiotropic cytokine produced by activated T follicular helper cells (Tfh), Th17 cells, and NKT cells. IL-21 acts via both autocrine and paracrine pathways to regulate several aspects of T and B cell activation, maturation, and differentiation. IL-21 mediates its biological effects through a heterodimeric receptor complex of gamma c and the IL-21-specific IL-21R. Recombinant Rat IL-21 is a 15.3 kDa protein containing 130 amino acid residues.

### MOLECULAR MASS

15.3 kDa

### AMINO ACID SEQUENCE

MHKSSPQRPD HLLIRLRHLM DIVEQLKIYE NDLPELLTA PQDVKGQCEH EAFACFQKAK LKPSNTGNK TFINDLLAQL RRRLPAKRTG NKQRHMAKCP  
SCDLYEKKTP KEFLERLKWL LQKMIHQHLS

### SOURCE

E. coli

### APPLICATIONS

Bioassay

### PURITY

98 %

### STORAGE

-20°C

### PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

### ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1 EU/μg).

### AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

### CROSS REACTIVITY

N/A

### BIOACTIVITY

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 x 106 units/mg.

### RESEARCH AREAS

AIDS/HIV, Allergy, Cancer, Cell Culture, Diabetes/Weight Regulation, Immune System, Inflammation, Neurobiology, Stem Cells & Differentiation, Transplantation, Wound Healing

### RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

### REFERENCES

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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