

**TECHNICAL DATA SHEET**

**Recombinant Human IL-11 (Carrier-Free)**

Catalog Number: 21-9122

**RPx-Pro™ Recombinant Protein**  
**PRODUCT INFORMATION**

**CONTENTS**

Recombinant Human IL-11 (Carrier-Free)

**DESCRIPTION**

IL-11 is a multifunctional cytokine produced by stromal cells, such as fibroblasts, epithelial cells and osteoclasts. It is expressed in a wide variety of tissues, including thymus, lung, bone, connective tissue and central nervous system. IL-11 plays an important regulatory role in hematopoiesis by stimulating growth of myeloid, erythroid and megakaryocyte progenitor cells. It also regulates bone metabolism, inhibits production of proinflammatory cytokines, and protects against gastromucosal injury.

**MOLECULAR MASS**

Recombinant Human IL-11 is a 19.3 kDa protein consisting of 179 amino acid residues.

**AMINO ACID SEQUENCE**

MPGPPPGPPR VSPDPRAELD STVLLTRSLR ADTRQLAAQL RDKFPADGDH NLDLPTLAM SAGALGALQL PGVLRRLRAD LLSYLRHVQW  
 LRRAGGSSLK TLEPELGTLLQ ARLDRLLRRL QLLMSRLALP QPPDPPAPP LAPPSSAWGG IRAAHAILGG LHLTDWAVR GLLLLKTRL

**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 (<1EU/µg).

**AUTHENTICITY**

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

**CROSS REACTIVITY**

Human, Monkey, Mouse

**BIOACTIVITY**

The ED50 was determined by the dose-dependent stimulation of the proliferation of Mouse T11 cells is ≤ 2.0 ng/ml, corresponding to a specific activity of ≥ 5 x 10<sup>5</sup> units/mg.

**RESEARCH AREAS**

Immune System, Inflammation, Stem Cells & Differentiation, Angiogenesis/Cardiovascular, Apoptosis, Cancer

**RECONSTITUTION**

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

**REFERENCES**

Yu, L. SENP1-mediated GATA1 deSUMOylation is critical for definitive erythropoiesis. 2010. The Journal of Experimental Medicine; 207(6):1183-95.  
 Hemminki, A. Modulation of coxsackie-adenovirus receptor expression for increased adenoviral transgene expression. 2003. Cancer Research.

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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