

## TECHNICAL DATA SHEET

# Recombinant Mouse IL-11 (Carrier-Free)

Catalog Number: 21-9133

## RPx-Pro™ Recombinant Protein

### PRODUCT INFORMATION

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Recombinant Mouse 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 Mouse IL-11 is a 19.1 kDa protein consisting of 179 amino acid residues.

#### AMINO ACID SEQUENCE

MPGPPAGSPR VSSDPRADLD SAVLLTRSLL ADTRQLAAQM RDKFPADGDH SLDSLPTLAM SAGTLGSLQL PGVLTRLRVD LMSYLRHVQW LRRAGGPSLK TLEPELGALQ ARLERLLRRL QLLMSRLALP QAAPDQPVIP LGPPASAWGS IRAAHAILGG LHLTLDWAVR 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

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

Ragu, C. The transcription factor Srf regulates hematopoietic stem cell adhesion. 2010. Blood; 116(22):4464-73. Crist, S.A. Nuclear factor of activated T cells (NFAT) mediates CD154 expression in megakaryocytes. 2008. Blood; 111(7):3553-61.

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