

**TECHNICAL DATA SHEET**

# Recombinant Mouse IL-4 (Carrier-free)

Catalog Number: 21-8041

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

**CONTENTS**

Recombinant Mouse IL-4 (Carrier-free)

**DESCRIPTION**

IL-4 is a pleiotropic cytokine with major roles in the induction of Th2 cell differentiation and B cell Ig class switching. Additionally, IL-4 is involved in the development of allergic inflammation and asthma.

**MOLECULAR MASS**

Recombinant Mouse IL-4 is a 13.5 kDa globular protein containing 121 amino acid residues.

**AMINO ACID SEQUENCE**

MHIHGCDKNH LREIIGILNE VTGEGTPCTE MDVPNVL TAT KNTTESELVC RASKVLRIFY LKHGKTPCLK KNSSVLMELQ RLFRAFRCLD  
SSISCTMNES KSTSLKDFLE SLKSIMQMDY S

**SOURCE**

E. Coli

**APPLICATIONS**

Bioassay

**PURITY**

98 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

Content Verified by UV Spectroscopy and/or SDS-PAGE

**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**

Rat, Pig Intestinal Worm

**BIOACTIVITY**

The ED<sub>50</sub> was determined by the dose-dependent proliferation of Mouse HT-2 cells is <2.0 ng/ml, corresponding to a specific activity of >5 x 10<sup>5</sup> units/mg.

**RESEARCH AREAS**

Apoptosis; Cancer; Cell Culture; Immune System; Inflammation ; Proliferation; Stem Cells & Differentiation; Allergy; Transplantation

**RECONSTITUTION**

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

**REFERENCES**

Yokota T, T Otsuka, T Mosmann, J Banchereau, T DeFrance, D Blanchard, JE De Vries, F Lee and K Arai 1986 Proc Natl Acad Sci USA 83(16): 5894-5898.  
Chomarat P and J Banchereau 1998 Int Rev Immunol 17(1-4): 1-52. Rosenberg HF, S Phipps and PS Foster 2007 J Allergy Clin Immunol 119(6): 1303-1310.

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