

**TECHNICAL DATA SHEET**

# Recombinant Mouse IL-3 (Carrier-free)

Catalog Number: 21-8031

**RPx-Pro™ Recombinant Protein**

**PRODUCT INFORMATION**

**CONTENTS**

Recombinant Mouse IL-3 (Carrier-free)

**DESCRIPTION**

IL-3 is a major hematopoietic growth factor produced by basophils and activated T cells and drives the differentiation of hematopoietic stem cells into myeloid lineages precursors. In conjunction with IL-7, IL-3 will induce lymphoid precursor cell differentiation. Together with other cytokines including EPO, GM-CSF, and IL-6 in an immune response, IL-3 will support growth and differentiation of T cells from the bone marrow.

**MOLECULAR MASS**

Recombinant Mouse IL-3 is a 15.1 kDa protein composed of 135 amino acid residues.

**AMINO ACID SEQUENCE**

MDTHRLRTL NCSSIVKEII GKLPEPELKT DDEGPSLRNK SFRRVNLSKF VESQGEVDPE DRYVIKSNLQ KLNCCLP TSA NDSALPGVFI  
RDLDDFRKKL RFYMVHLNDL ETVLTSRPPQ PASGSVSPNR GTVEC

**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**

Gerbil, Rat

**BIOACTIVITY**

The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of Mouse NFS-60 cells is ≤0.05 ng/ml, corresponding to a specific activity of ≥2 x 10<sup>7</sup> units/mg.

**RESEARCH AREAS**

AIDS/HIV; Cancer; Cell Culture; Immune System; Proliferation; Stem Cells & Differentiation

**RECONSTITUTION**

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

**REFERENCES**

Ihle JN, L Peppersack and L Rebar 1981 J Immunol 126 6: 2184–2189. Stomski FC, Q Sun, CJ Bagley, J Woodcock, G Goodall, RK Andrews, MC Berndt and AF Lopez 1996 Mol Cell Biol 16: 3035–3046. Woodcock JM, B Zacharakis, G Plaetinck, CL Bagley, S Qiyu, TR Hercus, T Tavernier and AF Lopez 1994 EMBO J 13: 5176–5185. Martinez-Moczygemba M and DP Huston 2003 J Allergy Clin Immunol 112: 653–665. Kitamura T, N Sato, K Arai and A Miyajima Cell 66: 1165–1174.

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