

TECHNICAL DATA SHEET

Recombinant Mouse IL-6 (Carrier-free)

Catalog Number: 21-8061

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Mouse IL-6 (Carrier-free)

DESCRIPTION

IL-6 is a pleiotropic cytokine produced by a variety of cell types including T cells, monocytes, fibroblasts, endothelial cells and keratinocytes. IL-6 has diverse functions including important roles in the acute phase reaction, inflammation, hematopoiesis, and bone metabolism.

MOLECULAR MASS

Recombinant Mouse IL-6 is a 21.7 kDa protein composed of 187 amino acid residues.

AMINO ACID SEQUENCE

MFPTSQVRRG DFTEDTTPNR PVYTTSQVGG LITHVLWEIV EMRKELCNGN SDCMNNDDAL AENNLKLP EI QRNDGCYQTG
YNQEICLLKI SSGLL EYHSY LEYMKNLKD NKKDKARVLQ RDTETLIHIF NQEVKDLH KI VLPTPISNAL LTKLESQKE WLRTKTIQFI
LKSLEEF LKV TLRSTRQT

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

Monkey, Rat

BIOACTIVITY

ED₅₀ ≤0.02 ng/ml, corresponding to a specific activity of ≥5 x 10⁷ units/mg as calculated by the dose-dependent proliferation of IL-6-dependent Mouse 7TD1 cells.

RESEARCH AREAS

Angiogenesis/Cardiovascular; Cancer; Cell Culture; Diabetes / Weight Regulation; Immune System; Inflammation; Neurobiology; Stem Cells & Differentiation; Wound Healing; Allergy; Transplantation

RECONSTITUTION

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

REFERENCES

van der Poll T, CV Keogh, X Guirao, WA Buurman, M Kopf, and SF Lowry 1997 J Infect Dis 176(2):439–444. Banks WA, AJ Kastin, and EG Gutierrez 1994 Neurosci Lett 179:53–56. Febbraio MA and BK Pedersen 2005 Exerc Sport Sci Rev 33:114–119. Pedersen BK 2013 Compr Physiol 3:1337–1362. Sharma RP, N Tun, and DR Grayson 2008 Epigenetics 3:74–80.

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