

TECHNICAL DATA SHEET

Recombinant Human IL-6 (Carrier-free)

Catalog Number: 21-8069

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human 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 Human IL-6 is a 20.9 kDa protein containing 184 amino acid residues.

AMINO ACID SEQUENCE

PVPPGEDSKD VAAPHRQPLT SSERIDKQIR YILDGISALR KETCNKSNMC ESSKEALAEN NLNLPKMAEK DGCFQSGFNE ETCLVKIITG LLEFEVYLEY LQNRFSSEE QARAVQMSTK VLIQFLQKKA KNLDAITTPD PTTNASLLTK LQAQNQWLQD MTTHLILRSF KEFLQSSLRA LRQM

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, Mouse, Rat

BIOACTIVITY

The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of IL-6 dependent mouse 7TD1 cells is ≤0.1 ng/ml, corresponding to a specific activity of ≥1 x 10⁷ units/mg.

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

Yasukawa K, T Hirano, Y Watanabe, K Muratani, T Matsuda, S Nakai, and T Kishimoto 1987 EMBO J 6(10):2939-45. Brakenhoff JP, ER de Groot, RF Evers, H Pannekoek, and LA Aarden 1987 J Immunol 139(12):4116-21. Gough NM, DP Gearing, JA King, TA Willson, DJ Hilton, NA Nicola, and D Metcalf 1988 Proc Natl Acad Sci U S A 85(8):2623-7. Mayer P, K Geissler, P Valent, M Ceska, P Bettelheim, and E Liehl 1991 Exp Hematol 19(7):688-96.

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