

TECHNICAL DATA SHEET

Recombinant Mouse IL-2 (Carrier-free)

Catalog Number: 21-8021

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Mouse IL-2 (Carrier-free)

DESCRIPTION

IL-2 is a potent growth factor for T lymphocytes and is critical for maintenance and expansion of regulatory T cells. Additionally, IL-2 stimulates the growth and differentiation of activated B cells, monocytes, NK cells, and LAK cells.

MOLECULAR MASS

Recombinant Mouse IL-2 is a 17.2 kDa protein, containing 149 amino acid residues.

AMINO ACID SEQUENCE

PTSSSTSSST AEAQQQQQQQ QQQQQHLEQL LMDLQELLSR MENYRNLKLP RMLTFKFYLP KQATELKDLQ CLEDELGPLR
HVLDTQSKS FQLEDAENFI SNIRVTVVKL KGSDNTFECQ FDDSATVVD FLRRWIAFCQ SIISTSPQ

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

Human

BIOACTIVITY

The ED₅₀ as determined by the dose dependent stimulation of Mouse CTLL-2 cells is <0.2 ng/ml, corresponding to a specific activity of >5 x 10⁶ units/mg.

RESEARCH AREAS

AIDS/HIV; Cancer; Cell Culture; Diabetes / Weight Regulation; Immune System; Inflammation ; Neurobiology; Proliferation;
Stem Cells & Differentiation: Wound Healing: Allerg: Transplantation

RECONSTITUTION

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

REFERENCES

Gaffen SL and KD Liu 2004 Cytokine 28(3): 109-123. Fehérvari Z, T Yamaguchi and S Sakaguchi 2006 Trends Immunol 27(3): 109-111. Ma A, R Koka and P Burkett 2006 Annu Rev Immunol 24: 657-79.

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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