

TECHNICAL DATA SHEET

Recombinant Mouse IFN- γ (Carrier-free)

Catalog Number: 21-8311

RPx-Pro™ Recombinant Protein PRODUCT INFORMATION

CONTENTS

Recombinant Mouse IFN- γ (Carrier-free)

DESCRIPTION

Interferon-gamma is a type II interferon that exists in its mature form as a noncovalently associated homodimer. It is produced mainly by NK cells and T lymphocytes and functions in both innate and adaptive immune responses to viral and intracellular bacterial infections.

MOLECULAR MASS

Recombinant Mouse IFN-gamma is a 15.6 kDa protein containing 134 amino acid residues.

AMINO ACID SEQUENCE

MHGTVIESLE SLNNYFNSSG IDVEEKSLFL DIWRNWQKDG DMKILQSQII SFYLRLFEVL KDNQAISNNI SVIESHLITT FFSNSKAKKD
AFMSIAKFEV NNPQVQRQAF NELIRVVHQL LPESSLRKRK RSRC

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/ μ g of protein (<1 EU/ μ g).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

Rabbit, Rat

BIOACTIVITY

Determined by its ability to inhibit the proliferation of Mouse WEHI-279 cells. The expected ED₅₀ is \leq 0.2 ng/ml, corresponding to a specific activity of \geq 5 x 10⁶ units/mg.

RESEARCH AREAS

AIDS/HIV; Angiogenesis/Cardiovascular; Cancer; Diabetes / Weight Regulation; Immune System; Neurobiology; Stem Cells & Differentiation: Allerav; Transplantation

RECONSTITUTION

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

REFERENCES

Farrar MA and RD Schreiber 1993 Annu Rev Immunol 11: 571-611. Billiau A and P Matthys 2009 Cytokine Growth Factor Rev 20(2): 97-113. Pestka S, CD Krause and MR Walter 2004 Immunol Rev 202: 8-32. Gray PW and DV Goddele 1982 Nature 298: 859-863. Schroder K, PJ Hertzog, T Ravasi and DA Hume 2004 J Leukoc Biol 75: 163-189.

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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