

TECHNICAL DATA SHEET

Recombinant Human IFN-omega (Carrier-free)

Catalog Number: 21-7065

RPx-Pro™ Recombinant Protein PRODUCT INFORMATION

CONTENTS

Recombinant Human IFN-omega (Carrier-free)

DESCRIPTION

Interferon-omega (IFN-omega) is a member of the type I family of interferons, also including IFN-alpha and IFN-beta. These three interferons share a common cell surface receptor, IFNAR, involved in both ligand binding and signal transduction. IFN-omega is secreted by virus-infected leukocytes and, like other interferons, has antiviral activity.

MOLECULAR MASS

Recombinant Human IFN-omega is a 19.9 kDa protein consisting of 172 amino acid residues.

AMINO ACID SEQUENCE

CDLPQNHGL LSRNTLVLLH QMRRISPFLC LKDRRDFRFP QEMVKGSQLQ KAHVMSVLHE MLQQIFSLFH TERSSAAWNM
TLLDQLHTGL HQQLQHLETCLLQVVGEGES AGAISSPALT LRRYFQGIRV YLKEKKYSDC AWEVVRMEIM KSLFLSTNMQ
ERLRKDRDL GSS

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

BIOACTIVITY

The ED₅₀ was determined by a cytotoxicity assay using Human TF-1 cells is ≤ 0.01 ng/ml, corresponding to a specific activity of ≥ 1 × 10⁸ units/mg.

RESEARCH AREAS

Immune System; Inflammation

RECONSTITUTION

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

REFERENCES

Flores I, Mariano TM and Pestka S. 1991. J Biol Chem. 266(30): 19875-19877. Branca AA and Baglioni C. 1981. Nature. 294(5843): 768-770. Bekisz J. Schmeisser H, Hernandez J, Goldman ND and Zoon KC. 2004. Growth Factors. 22(4): 243-251.

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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