

TECHNICAL DATA SHEET

Recombinant Human IL-22 (Carrier-Free)

Catalog Number: 21-9127

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human IL-22 (Carrier-Free)

DESCRIPTION

IL-22 is a member of the IL-10 family of regulatory cytokines, which includes IL-10, IL-19, IL-20, IL-22, IL-24 and IL-26. Members of this family share partial homology in their amino acid sequences, but they are dissimilar in their biological functions. Produced by T lymphocytes, IL-22 inhibits IL-4 production by Th2 cells, and induces acute phase reactants in the liver and p100creas.

MOLECULAR MASS

Recombinant Human IL-22 is a 33.6 kDa, non-disulfide-linked, homodimeric protein consisting of two 147 amino acid polypeptide chains.

AMINO ACID SEQUENCE

MAPISSHCRL DKSNFQQPYI TNRTFMLAKE ASLADNNTDV RLIGELKLFHG VSMSERCYLM KQVLNFTLEE VLFPQSDRFQ PYMQEVVPL ARLSNRLSTC
 HIEGDDLHIQ RNVQKLKDTV KKLGESGEIK AIGELDLLFM SLRNACI

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

AUTHENTICITY

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

CROSS REACTIVITY

Human, Monkey

BIOACTIVITY

Assay #1: Determined by its ability to activate STAT following receptor ligand interaction. Assay #2: Measured by its ability to induce IL-10 secretion in COLO 205 (human colon carcinoma cells). The expected ED50 for this effect is 0.7- 1.0 ng/ml.

RESEARCH AREAS

Immune System

RECONSTITUTION

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

REFERENCES

Tjabringa, G. Development and validation of human psoriatic skin equivalents. 2008. The American Journal of Pathology; 173(3):815-23. Huang, J. Inhibition of type I and type III interferons by a secreted glycoprotein from Yaba-like disease virus. 2007. Proceedings of the National Academy of Sciences of the USA; 104(23):9822-7.

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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