

TECHNICAL DATA SHEET

## Recombinant Human IL-19 (Carrier-Free)

Catalog Number: 21-9126

**RPx-Pro™ Recombinant Protein**  
PRODUCT INFORMATION

**CONTENTS**

Recombinant Human IL-19 (Carrier-Free)

**DESCRIPTION**

IL-19 belongs to 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. Preliminary data suggests that IL-19 is a proinflammatory cytokine, because it up-regulates IL-6 and TNF-alpha, and induces apoptosis through TNF-alpha. IL-19 signals through the type I IL-20R. Human and Mouse IL-19 share 71% amino acid sequence identity.

**MOLECULAR MASS**

Recombinant Human IL-19 is a 35.8 kDa homodimer of two 154 amino acid chains. In solution, IL-19 exists predominantly as a non-disulfide-linked dimer.

**AMINO ACID SEQUENCE**

MLRRCLISTDMHHIEESFQEIKRAIQAKDTFPNVTILSTLETLQIIKPLDVCCVTKNLLAFYVDRVFKDHQEPNPKILRKISSIANSFLYMQKTLRQCQEQRQCHCRQ  
EATNATRVIHNDYDQLEVHAAAIAKSLGELDVFLAWINKNHEVMSSA

**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

**BIOACTIVITY**

Measured by its ability to stimulate human IL-1alpha secretion by PHA activated THP-1 cells.

**RESEARCH AREAS**

Allergy, Inflammation, Immune System, Proliferation

**RECONSTITUTION**

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

**REFERENCES**

Zenewicz, L.A. Innate and adaptive interleukin-22 protects mice from inflammatory bowel disease. 2008. *Immunity*; 29(6):947-57. Schilling, B. IRX-2, a Novel Immunotherapeutic, Enhances Functions of Human Dendritic Cells. 2003. *PLoS ONE*; 8(2):e47234.

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