

TECHNICAL DATA SHEET

Recombinant Human IL-16 (130 a.a.) (Carrier-Free)

Catalog Number: 21-9125

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human IL-16 (130 a.a.) (Carrier-Free)

DESCRIPTION

IL-16 is a CD8+ T cell-derived cytokine that induces chemotaxis of CD4+ T cells, CD4+ monocytes, and eosinophils. Analysis by gel filtration suggests that, under physiological conditions, hIL-16 exists predominantly as a noncovalently linked multimer, but that some IL-16 may exist as a monomer. However, only the multimeric form appears to possess chemotactic activity, suggesting that receptor cross-linking may be required for activity. Human and Mouse IL-16 show significant cross-species reactivity.

MOLECULAR MASS

Recombinant Human IL-16 is a 13.3 kDa protein consisting of 129 amino acid residues.

AMINO ACID SEQUENCE

PDLNSSTDSA ASASAASDVS VESTAEATVC TVTLEKMSAG LGFSLEGGKG SLHGDKPLTI NRIFKGAASE QSETVQPGDE ILQLGGTAMQ GLTRFEAWNIIKALPDGPVT IVIRRKSLQS KETTAAGDS

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, Human + Mouse, Leech, Mouse

BIOACTIVITY

Determined by its ability to chemoattract human CD4+ T lymphocytes using a concentration range of 1.0-100.0 ng/ml.

RESEARCH AREAS

AIDS/HIV, Inflammation, Immune System, Apoptosis

RECONSTITUTION

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

REFERENCES

Klimiuk, P.A. IL-16 as an anti-inflammatory cytokine in rheumatoid synovitis. 1999. The Journal of Immunology; 162(7):4293-9. Ogasawara, H. Inhibitory effect of interleukin-16 on interleukin-2 production by CD4+ T cells. 1999. Immunology; 96(2):215-9.

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