

TECHNICAL DATA SHEET

Recombinant Human IL-16 (121 a.a.) (Carrier-free)

Catalog Number: 21-7151

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human IL-16 (121 a.a.) (Carrier-free)

DESCRIPTION

IL-16 is an immunomodulatory cytokine secreted by activated CD8+ T cells, as well as other immune and non-immune cell types. It serves as a chemoattractant for CD4+ T cells, macrophages, and eosinophils. IL-16 induces expression of CD25 (IL-2R) and plays a role in the accumulation and activation of CD4+ cells recruited to sites of inflammation. IL-16 (121 a.a.) is a proteolytic product of pro-IL-16 cleaved by Caspase-3 after T-cell activation, producing a secreted biologically active form. It requires surface CD4 to mediate signaling processes.

MOLECULAR MASS

Recombinant Human IL-16 consists of 121 amino acids and is a 12.4 kDa protein.

AMINO ACID SEQUENCE

SAASASAASD VSVETAET VCTVTLEKMS AGLGFSLEGG KGLSHGDKPL TINRIFKGAA SEQSETVQPG DEILQLGGTA MQGLTRFEAW NIIKALPDGP VTIVIRRRKSL QSKETTAAGD S

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

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

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

Mouse

BIOACTIVITY

A concentration range of 50-100 ng/ml is used to measure the ability to chemoattract human CD4+ T lymphocytes.

RESEARCH AREAS

Immune System, AIDS, Inflammation, Apoptosis

RECONSTITUTION

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

REFERENCES

Chupp GL1, Wright EA, Wu D, Vallen-Mashikian M, Cruikshank WW, Center DM, Kornfeld H and Berman JS. 1998. J Immunol. 161(6): 3114-3119. Zhang Y, Center DM, Wu DM, Cruikshank WW, Yuan J, Andrews DW and Kornfeld H. 1998. J Biol Chem. 273(2): 1144-1149. Cruikshank WW, Kornfeld H and Center DM. 2000. J Leukoc Biol. 67(6): 757-766. Keane J, Nicoll J, Kim S, Wu DHM, Cruikshank WW, Brazer W, Natke B, Zhang Y, Center DM and Kornfeld H. 1998. J Immunol. 160(12): 5945-5954.

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