

TECHNICAL DATA SHEET

Recombinant Human IL-24 (Carrier-free)

Catalog Number: 21-7153

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human IL-24 (Carrier-free)

DESCRIPTION

IL-24 belongs to the IL-10 cytokine family of structurally similar but functionally diverse members, and forms a subgroup with IL-19 and IL-20. It is expressed in B-cells, CD4+ T cells, NK cells, monocytes, lymph node dendritic cells and melanomas. IL-24 is shown to signal through two receptor complexes, IL-20Ra/IL-20Rb and IL-22R/IL-20Rb. Both receptor complexes are shared with other cytokines within the subgroup. Binding of receptors on endothelial cells activates STAT3 and blocks differentiation. IL-24 is able to selectively induce apoptosis in tumor cells at high concentrations, and at low concentrations it acts as a pro-inflammatory cytokine.

MOLECULAR MASS

Recombinant Human IL-24 consists of 161 amino acids and is an 18.9 kDa glycoprotein that includes a C-terminal His-tag.

AMINO ACID SEQUENCE

QEFHFGPCQV KGVVPQKLWE AFWAVKDTMQ AQDNITSARL LQQEVLLQNVS DAESCYLEVHT LLEFYLKTVF KNYHNRTVEV RTLKSFSTLA NNFVLIVSQL QPSQENEMFS IRDSARRRFL LFRRAFQQLD VEAALTKALG EVDILLTWMQ KFYKLHHHHH H

SOURCE

CHO cells

APPLICATIONS

Bioassay

PURITY

95 %

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

BIOACTIVITY

No data available at this time.

RESEARCH AREAS

Cancer, Immune System, Proliferation, Apoptosis, Angiogenesis & Cardiovascular

RECONSTITUTION

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

REFERENCES

Wang M, Tan Z, Zhang R, Kotenko SV, Liang P. 2002. J Biol Chem. 277(9): 7341-7347. Gopalkrishnan RV and Sauane M, Fisher PB. 2004. Int Immunopharmacol. 4(5): 635-647. Sauane M, Lebedeva IV, Su ZZ, Choo HT, Randolph A, Valerie K, Dent P, Gopalkrishnan RV and Fisher PB. 2004. Cancer Res. 64(9): 2988-2993. Jiang H, Lin JJ, Su ZZ, Goldstein NI and Fisher PB. 1995. Oncogene. 11(12): 2477-2486.

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