

TECHNICAL DATA SHEET

Recombinant Mouse Lungkine (Carrier-Free)

Catalog Number: 21-9142

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Mouse Lungkine (Carrier-Free)

DESCRIPTION

Lungkine is a CXC chemokine that is expressed in lung epithelial cells and, to a lesser extent, in certain fetal tissues. No human homolog has been identified, and a specific cell surface receptor has not yet been found. Lungkine expression in lung tissue is elevated in response to inflammation, at which time it acts to specifically recruit neutrophils and direct them into the lung airway.

MOLECULAR MASS

Recombinant Mouse Lungkine is a 16.3 kDa CXC chemokine consisting of 142 amino acid residues, including four conserved cysteine residues present in CXC chemokines.

AMINO ACID SEQUENCE

QELRCLCIQE HSEFIPLKLI KNIMVIFETI YCNRKEVIAV PKNGSMICLD PDAPWVKATV GPITNRFLE DLKQKEFPPA MKLLYSVEHE KPLYLSFGRP
 ENKRIFPFPI RETSRHFADL AHNSDRNFLR DSSEVSLTGS DA

SOURCE

HEK293 cells

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

Bacteria, Human, Mouse

BIOACTIVITY

Determined by its ability to chemoattract human neutrophils using a concentration range of 20.0-100.0 ng/ml.

RESEARCH AREAS

Wound Healing, Chemotaxis, Inflammation

RECONSTITUTION

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

REFERENCES

Yung, S.C. Host Chemokines Bind to Staphylococcus aureus and Stimulate Protein A Release. 2011. The Journal of Biological Chemistry; 286(7):5069-77.
 Singh, K. Yeast surface display identifies a family of evasins from ticks with novel polyvalent CC chemokine-binding activities. 2017. ACS Medicinal Chemistry Letters;

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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