

TECHNICAL DATA SHEET

Recombinant Human ICAM-1 (Carrier-free)

Catalog Number: 21-7064

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human ICAM-1 (Carrier-free)

DESCRIPTION

Intercellular adhesion molecule 1 (ICAM-1), also known as CD54, is a member of the immunoglobulin (Ig) superfamily and binds the leukocyte integrins LFA-1 and Mac-1, and functions as the major receptor for human rhinovirus. LFA-1 is found on all T cells and interaction with ICAM-1 has been shown to stimulate various T cell activation and differentiation activities. ICAM-1 is expressed at low levels on the surface of leukocytes, endothelial cells, macrophages, and lymphocytes but is activated by LPS and cytokines such as IFN-gamma, TNF-alpha and IL-1beta. The primary function of ICAM-1 is to provide adhesion between endothelial cells and leukocytes after stress or injury.

MOLECULAR MASS

Recombinant human ICAM-1 is a 49.5 kDa glycoprotein comprising the extracellular domain (453 amino acid residues) of ICAM-1. Monomeric glycosylated ICAM-1 migrates at an apparent molecular weight of approximately 72.0-80.0 kDa by SDS-PAGE analysis under reducing conditions.

AMINO ACID SEQUENCE

QTSVSPSKVI LPRGGSVLVT CSTSCDQPKL LGIETPLPKK ELLLPGNRNRK VYELSNVQED SQPMCYSNCP DGQSTAKTFL
 TVYWTPEERVE LAPLPSWQPV GKNLTLRCQV EGGAPRANLT VLLRGEKEL KREPAVGEP A EVTTTVLVRR DHHGANFSCR
 TELDLRPQGL ELFENTSAPY QLQTFVLPAT PPQLVSPRVL EVDTQGTVVC SLDGLFPVSE AQVHLALGDQ RLNPTVTYGN
 DSFSAKASVS VTADEGTQR LTCAVILGNQ SQETLQTVTI YSFPAPNVIL TKPEVSEGTE VTKCEAHPR AKVTLNGVPA QPLGPRAQLL
 LKATPEDNGR SFSCSATLEV AGQLIHKNT RELRVLYGPR LDERDCPGNW TWPENSQQTP MCQAWGNPLP ELKCLKDGT
 PLPIGESVTV TRDLEGTYLC RARSTQGEVT RKVTVNVLSP RYE

SOURCE

CHO cells

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

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

Bacteria

BIOACTIVITY

ICAM-1 supported the adhesion of more than 50% PMA-stimulated HSB2 cells to plates coated at 25 μg/ml ICAM-1 concentration.

RESEARCH AREAS

Angiogenesis/Cardiovascular; Inflammation; Allergy; Transplantation

RECONSTITUTION

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

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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