

TECHNICAL DATA SHEET

Recombinant Human E-selectin (Carrier-free)

Catalog Number: 21-7178

RPx-Pro™ Recombinant Protein PRODUCT INFORMATION

CONTENTS

Recombinant Human E-selectin (Carrier-free)

DESCRIPTION

E-selectin (CD62E) is a member of the calcium-dependent selectin family. E-selectin, a cell adhesion surface glycoprotein, is also known as endothelial-leukocyte adhesion molecule-1 (ELAM-1), or leukocyte-endothelial cell adhesion molecule 2 (LECAM2). E-selectin is expressed on cytokine activated endothelial cells playing a critical role in inflammation. E-selectin recognizes and binds to sialylated carbohydrates present on the surface proteins expressed by neutrophils, monocytes, eosinophils, memory-effector T-like lymphocytes, and natural killer cells. Macrophage release of cytokines induces the over-expression of E-selectin on endothelial cells of nearby blood vessels. Along with other selectins, E-selectin recruits circulating leukocytes to the site of inflammation. E-selectin is associated with metastatic dissemination of tumor cells by facilitating their escape from the location of the primary tumor. Recombinant Human E-selectin comprises the extracellular signaling domain of the E-selectin protein.

MOLECULAR MASS

Recombinant Human E-selectin is a 58.6 kDa protein containing 535 amino acid residues, corresponding to the extracellular portion of the full length protein. The 58.6 kDa protein migrates under reducing conditions at an apparent molecular weight of approximately 65-85 kDa by SDS-PAGE analysis due to heavy glycosylation.

AMINO ACID SEQUENCE

WSYNTSTEAM TYDEASAYCQ QRYTHLVAIQ NKEEIEYLNLS ILSYSPSYW IGIRKVNWV VVVGTKPLT EEAKNWAPGE PNNRQKDEDC VEIYIKREKD
VGMWNDERCS KKKLALCYTA ACTNTSCSGH GECVETINNY TCKCDPGFSG LKCEQIVNCT ALESPEHGSL VCSHPLGNFS YNSSCSISCD
RGYLPSSMET MQCMSSGEWS APIPACNVVE CDAVTNPANG FVECFQNP GS FPWNTTCTFD CEEGFELMGA QSLQCTSSGN WDNEKPTCKA
VTCRAVRQPQ NGSVRC SHSP AGEFTFKSSC NFTCEEFGML QGPAQVECTT QGQWTQIPV CEAFCQTALS NPERGYMNCL PSASGSFRYG
SSCEFSCEQG FVLKGSKRLQ CGPTGEWDNE KPTCEAVRCD AVHQPPKGLV RCAHSPIGEF TYKSSCAFSC EEGFELHGST QLECTSQGQW
TEEVPSQVW KCSSLAVPGK INMSCSGEPV FGTVCKFACP EGWTLNGSAA RTCGATGHWS GLLPTCEAPT ESNIP

SOURCE

CHO cells

APPLICATIONS

Bioassay

PURITY

95 %

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

N/A

BIOACTIVITY

Measured by its ability to support adhesion of U937 cells, a human histiocytic lymphoma cell line.

RESEARCH AREAS

Angiogenesis & Cardiovascular, Chemotaxis, Inflammation

RECONSTITUTION

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

REFERENCES

Häuselmann I, Roblek M, Protsyuk D, Huck V, Knopfova L, Grässle S, Bauer AT, Schneider SW and Borsig L. 2016. Cancer Res. 76(18):5302-12. Dutta P, Hoyer FF, Sun Y, Iwamoto Y, Tricot B, Weissleder R, Magnani JL, Swirski FK and Nahrendorf M. 2016. Arterioscler Thromb Vasc Biol. 36(9):1802-8

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