



Recombinant human E-Selectin

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-410S
Size:	10 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	6401
Synonyms:	Endothelial leukocyte adhesion molecule 1, ELAM1, CD62E, SELE

Selectins are a family of calcium-dependent type 1 transmembrane proteins. Endothelial (E)-selectin is a heavily glycosylated transmembrane protein expressed by activated endothelial cells in microvascular linings. E-selectin, along with P-selectin and L-selectin, initiate recruitment of circulating leukocytes from blood to sites of inflammation in the vascular lining through interaction with specific cell surface associated carbohydrate determinants. E-selectin consists of an N-terminal type 1 lectin domain, an EGF-like domain, 6 sushi (CCP/SCR) domains, a transmembrane sequence, and a short cytoplasmic domain. 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. Due to glycosylation, E-selectin migrates at an apparent molecular weight of approximately 65-85 kDa by SDS-PAGE analysis under reducing conditions.

Sequence

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WSYNTSTEAM TYDEASAYCQ QRYTHLVAIQ NKEEIEYLNS
ILSYSPSYW IGIRKVNNVW VVVGTKPLT EEAKNWAPGE
PNNRQKDEDC VEIYIKREKD VGMWNDERCS KKKLALCYTA
ACTNTSCSGH GECVETINNY TCKCDPGFSG LKCEQIVNCT
ALESPEHGSL VCSHPLGNFS YNSSCSISCD RGYLPSSMET
MQCMSGGEWS APIPACNVVE CDAVTNPANG FVECFQNPGS
FPWNTTCTFD CEEGFELMGA QSLQCTSSGN WDNEKPTCKA
VTCRAVRQPQ NGSVRCSSHSP AGEFTFKSSC NPTCEEGFML
QGPAQVECTT QGQWTQQIPV CEAFQCTALS NPERGYMNCL
PSASGSFRYG SSCEFSCEQG FVLKGSKRLQ CGPTGEWDNE
KPTCEAVRCD AVHQPPKGLV RCAHSPIGEF TYKSSCAFSC
EEGFELHGST QLECTSQGW TEEVPSCQVV KCSLAVPGK
INMSCSGEPV FGTVCKFACP EGWTLNGSAA RTCGATGHWS
GLLPTCEAPT ESNIP

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Database References

Protein RefSeq:	NP_000441.2
Uniprot ID:	P16581
mRNA RefSeq:	NM_000450.2

Product Specifications

Expressed in	CHO cells
Purity	>95% by SDS-PAGE & HPLC analysis
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	535
MW:	58.6 kDa

Biological Activity: Measured by its ability to support adhesion of U937 cells, a human hystiocytic lymphoma cell line.



AVOID REPEATED FREEZE AND THAW CYCLES!