

Active Recombinant Human SELE

Cat. No. SELE-79H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Human
Source	CHO
Description	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.
Bio-activity	Measured by its ability to support adhesion of U937 cells, a human histiocytic lymphoma cell line.
Molecular Mass	Glycosylated E-selectin migrates at an apparent molecular weight of approximately 65-85 kDa by SDS-PAGE analysis under reducing conditions.
AA Sequence	WSYNTSTEAM TYDEASAYCQ QRYTHLVAIQ NKEEIEYLNS ILSYSPSYW IGIRKVNNVW VWVGTQKPLT EEAKNWAPGE PNNRQKDEDC VEIYIKREKD VGMWNDERCS KKKLALCYTA ACTNTSCSGH GECVETINNY TCKCDPGFSG

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LKCEQIVNCT ALESPEHGSL VCSHPLGNFS YNSSCSISCD RGYLPSSMET
 MQCMSSGEWS APIPACNVVE CDAVTNPANG FVECFQNP GS FPWNTTCTFD
 CEEGFELMGA QSLQCTSSGN WDNEKPTCKA VTCRAVRQPQ NGSVRC SHSP
 AGEFTFKSSC NFTCEE GFML QGPAQVECTT QGQWTQQIPV CEA FQCTALS
 NPERGYMNCL PSASGSFRYG SSCEFSCEQG FVLK GSKRLQ CGPTGEWDNE
 KPTCEAVRCD AVHQPPKGLV RCAHSPIGEF TYKSSCA FSC EEGFELHGST
 QLECTSQGQW TEEVPSCQVV KCSSLAVPGK INMSCSGEPV FGTVCKFACP
 EGWTLNGSAA RTCGATGHWS GLLPTCEAPT ESNIP

Purity Greater than 95% by SDS-PAGE gel and HPLC analyses.

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Full Length Full L.

GENE INFORMATION

Gene Name [SELE selectin E \[Homo sapiens \]](#)

Official Symbol SELE

Synonyms SELE; selectin E; ELAM, ELAM1, endothelial adhesion molecule 1; E-selectin; CD62E; ESEL; ELAM-1; endothelial adhesion molecule 1; CD62 antigen-like family member E; endothelial leukocyte adhesion molecule 1; leukocyte endothelial cell adhesion molecule 2; leukocyte-endothelial cell adhesion molecule 2; ELAM; ELAM1; LECAM2;

Gene ID [6401](#)

mRNA Refseq [NM_000450](#)

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Protein Refseq	NP_000441
MIM	131210
UniProt ID	P16581
Chromosome Location	1q22-q25
Pathway	ATF-2 transcription factor network, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Glucocorticoid receptor regulatory network, organism-specific biosystem; Malaria, organism-specific biosystem;
Function	binding; oligosaccharide binding; phospholipase binding; protein binding; sialic acid binding; sugar binding; transmembrane signaling receptor activity;

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