

E-Selectin/CD62E Protein, Mouse (HEK293, His)

Cat. No.:	HY-P73042
Synonyms:	E-selectin; ELAM-1; LECAM2; CD62E; SELE
Species:	Mouse
Source:	HEK293
Accession:	Q00690/NP_035475.1 (W29-P564)
Gene ID:	20339
Molecular Weight:	70-110 kDa

PROPERTIES

AA Sequence

W Y Y N A S S E L M	T Y D E A S A Y C Q	R D Y T H L V A I Q	N K E E I N Y L N S
N L K H S P S Y Y W	I G I R K V N N V W	I W V G T G K P L T	E E A Q N W A P G E
P N N K Q R N E D C	V E I Y I Q R T K D	S G M W N D E R C N	K K K L A L C Y T A
S C T N A S C S G H	G E C I E T I N S Y	T C K C H P G F L G	P N C E Q A V T C K
P Q E H P D Y G S L	N C S H P F G P F S	Y N S S C S F G C K	R G Y L P S S M E T
T V R C T S S G E W	S A P A P A C H V V	E C E A L T H P A H	G I R K C S S N P G
S Y P W N T T C T F	D C V E G Y R R V G	A Q N L Q C T S S G	I W D N E T P S C K
A V T C D A I P Q P	Q N G F V S C S H S	T A G E L A F K S S	C N F T C E Q S F T
L Q G P A Q V E C S	A Q G Q W T P Q I P	V C K A V Q C E A L	S A P Q Q G N M K C
L P S A S G P F Q N	G S S C E F S C E E	G F E L K G S R R L	Q C G P R G E W D S
K K P T C S A V K C	D D V P R P Q N G V	M E C A H A T T G E	F T Y K S S C A F Q
C N E G F S L H G S	A Q L E C T S Q G K	W T Q E V P S C Q V	V Q C P S L D V P G
K M N M S C S G T A	V F G T V C E F T C	P D D W T L N G S A	V L T C G A T G R W
S G M P P T C E A P	V S P T R P		

Biological Activity

Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells. When 5×10^4 cells/well are added to mouse E-Selectin/Fc Chimera coated plates (2 $\mu\text{g}/\text{mL}$ with 100 $\mu\text{L}/\text{well}$), approximately 99.43% will adhere for 1 hour incubation at room temperature.

Appearance

Lyophilized powder

Formulation

Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Endotoxin Level

<1 EU/ μg , determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION**Background**

E-Selectin/CD62E protein, a cell-surface glycoprotein, plays a crucial role in immunoadhesion by mediating the adhesion of blood neutrophils to cytokine-activated endothelium through interaction with SELPLG/PSGL1. Beyond its involvement in immune responses, E-Selectin may also contribute to capillary morphogenesis. The protein interacts with SELPLG/PSGL1 and PODXL2 through the sialyl Lewis X epitope, with SELPLG sulfation seemingly not required for this interaction. These interactions highlight the multifaceted roles of E-Selectin in mediating cell adhesion events and potentially influencing processes related to vascular development.

Caution: Product has not been fully validated for medical applications. For research use only.

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