

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

Cat. No.:	HY-P73044
Synonyms:	E-selectin; ELAM-1; LECAM2; CD62E; SELE
Species:	Rat
Source:	HEK293
Accession:	P98105 (W22-P494)
Gene ID:	25544
Molecular Weight:	The protein migrates as approximately 75-96 kDa under reducing SDS-PAGE due to glycosylation.

PROPERTIES

AA Sequence	<pre> 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 T L R Y S P S Y Y W I G I R K V N N V W I W V G T Q K P L T E E A K N W A P G E P N N K Q R N E D C V E I Y I Q R P K D S G M W N D E R C D K K K L A L C Y T A S C T N T S C S G H G E C V E T I N S Y T C K C H P G F L G P K C D Q V V T C Q E Q E Y P D H G S L N C T H P F G L F S Y N S S C S F S C E R G Y V 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 K A L T Q P A H G V R K C S S N P G S Y P W N T T C T F D C E E G Y R R V G A Q N L Q C T S S G V W D N E K P S C K A V T C D A I P R P Q N G S V S C S N S T A G A L A F K S S C N F T C E H 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 S Q C E A L S A P Q R G H M K C L P S A S A P F Q S G S S C K F S C D E G F E L K G S R R L Q C G P R G E W D S E K P T C A G V Q C S S L D L P G K M N M S C S G P A V F G T V C E F T C P E G W T L N G S S I L T C G A T G R W S A M L P T C E A P A N P P R P </pre>
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 Rat E-Selectin/Fc Chimera coated plates (2 $\mu\text{g}/\text{mL}$ with 100 $\mu\text{L}/\text{well}$), approximately 96.12% will adhere for 1 hour incubation at 37°C.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, 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 ddH ₂ O. 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 pivotal role in immunoadhesion by mediating the adhesion of blood neutrophils to cytokine-activated endothelium through interaction with SELPLG/PSGL1. Beyond its immunological function, E-Selectin may contribute to capillary morphogenesis. The protein engages in interactions with SELPLG/PSGL1 and PODXL2 through the sialyl Lewis X epitope, with the noteworthy observation that SELPLG sulfation seems dispensable for this interaction. These findings underscore the diverse roles of E-Selectin in facilitating cellular adhesion events and suggest its potential involvement in processes related to vascular development.

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

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