

## P-Selectin Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P73383
Synonyms:	P-selectin; GMP-140; LECAM3; PADGEM; CD62P; Selp
Species:	Mouse
Source:	HEK293
Accession:	Q01102 (W42-A709)
Gene ID:	20344
Molecular Weight:	Approximately 135 kDa

### PROPERTIES

#### AA Sequence

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

#### Biological Activity

Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells. The ED<sub>50</sub> this effect is 5.013 µg/mL, corresponding to a specific activity is 199.48 units/mg.

#### 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 µg/mL in ddH<sub>2</sub>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

The P-selectin protein is a Ca(2+)-dependent receptor found on myeloid cells, which specifically binds to carbohydrates on neutrophils and monocytes. It plays a crucial role in mediating the interaction between activated endothelial cells or platelets and leukocytes. The ligand recognized by P-selectin is sialyl-Lewis X. P-selectin facilitates the rapid rolling of leukocytes over vascular surfaces during the initial stages of inflammation by interacting with SELPLG. It also interacts with SNX17. Moreover, P-selectin interacts with SELPLG/PSGL1 and PODXL2, promoting neutrophil adhesion and leukocyte rolling. This interaction requires the presence of the sialyl-Lewis X epitope on SELPLG and PODXL2, as well as specific tyrosine sulfation on SELPLG.

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

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