

## P-Selectin Protein, Rat (HEK293, His)

<b>Cat. No.:</b>	HY-P73689
<b>Synonyms:</b>	P-selectin; GMP-140; LECAM3; PADGEM; CD62P; Selp
<b>Species:</b>	Rat
<b>Source:</b>	HEK293
<b>Accession:</b>	P98106 (W42-Q700)
<b>Gene ID:</b>	25651
<b>Molecular Weight:</b>	Approximately 115 kDa due to the glycosylation

### PROPERTIES

#### AA Sequence

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

#### Biological Activity

Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells. P-Selectin, immobilized at 10 µg/mL, will induce 53.03% adhesion on U937 cells (100 µL/well at 1 x 10<sup>6</sup> cells/mL).

#### 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

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recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping**

Room temperature in continental US; may vary elsewhere.

## DESCRIPTION

### Background

P-Selectin protein is a Ca(2+)-dependent receptor found on myeloid cells that binds to carbohydrates present on neutrophils and monocytes. It plays a crucial role in facilitating the interaction between activated endothelial cells or platelets with leukocytes. The specific ligand recognized by P-Selectin is sialyl-Lewis X. Through its interaction with SELPLG, P-Selectin mediates the rapid rolling of leukocytes over vascular surfaces during the initial stages of inflammation. P-Selectin also interacts with SNX17 and facilitates neutrophil adhesion and leukocyte rolling. This interaction is dependent on the sialyl-Lewis X epitope of 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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