

Product Data Sheet

P-selectin Protein, Human (HEK293, His)

Cat. No.:	HY-P70803
Synonyms:	P-selectin; CD62 antigen-like family member P; Granule membrane protein 140; GMP-140; Leukocyte-endothelial cell adhesion molecule 3; LECAM3; PADGEM
Species:	Human
Source:	HEK293
Accession:	P16109 (W42-A771)
Gene ID:	6403
Molecular Weight:	Approximately 95-130 kDa due to the glycosylation

PROPERTIES

AA Sequence					
·	W T Y H Y S T K A Y	SWNISRKYCQ	NRYTDLVAIQ	NKNEIDYLNK	
	VLPYYSSYYW	IGIRKNNKTW	TWVGTKKALT	NEAENWADNE	
	P N N K R N N E D C	VEIYIKSPSA	PGKWNDEHCL	КККНАГСҮТА	
	S C Q D M S C S K Q	GECLETIGNY	Τ Ϲ Տ Ϲ Υ Ρ G F Υ G	PECEYVRECG	
	ELELPQHVLM	NCSHPLGNFS	FNSQCSFHCT	DGYQVNGPSK	
	LECLASGIWT	ΝΚΡΡQCLAAQ	CPPLKIPERG	ΝΜΤϹLΗSΑΚΑ	
	FQHQSSCSFS	CEEGFALVGP	EVVQCTASGV	W Τ Α Ρ Α Ρ V C K Α	
	VQCQHLEAPS	EGTMDCVHPL	ТАҒАҮGSSCК	FECQPGYRVR	
	GLDMLRCIDS	GHWSAPLPTC	EAISCEPLES	P V H G S M D C S P	
	SLRAFQYDTN	CSFRCAEGFM	LRGADIVRCD	NLGQWTAPAP	
	VCQALQCQDL	PVPNEARVNC	SHPFGAFRYQ	SVCSFTCNEG	
	LLLVGASVLQ	CLATGNWNSV	ΡΡΕϹQΑΙΡϹΤ	P L L S P Q N G T M	
	T C V Q P L G S S S	YKSTCQFICD	EGYSLSGPER	LDCTRSGRWT	
	D S P P M C E A I K	CPELFAPEQG	SLDCSDTRGE	FNVGSTCHFS	
	CDNGFKLEGP	NNVECTTSGR	W S A T P P T C K G	IASLPTPGLQ	
	C	ТМҮСКННРСТ	FGFNTTCYFG	CNAGFTLIGD	
	STLSCRPSGQ	W T A V T P A C R A	VKCSELHVNK	PIAMNCSNLW	
	GNFSYGSICS	FHCLEGQLLN	GSAQTACQEN	GHWSTTVPTC	
	QAGPLTIQEA				
Biological Activity				937 human histiocytic lymphoma cells.	
	The ED $_{\rm 50}$ for this effect is 14.18 $\mu g/mL$, corresponding to a specific activity is 70.5219 units/mg.				
				937 human histiocytic lymphoma cells. P-	
	Selectin, immobilized at 1	.0 μg/mL, will induce ≥72.399	% adhesion on U937 cells (10	00 μL/well at 1 x 10 ⁶ 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.			

Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/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	P-selectin, a Ca(2+)-dependent receptor on myeloid cells, facilitates the binding to carbohydrates on neutrophils and monocytes, playing a crucial role in the interaction of activated endothelial cells or platelets with leukocytes. The ligand recognized by P-selectin is sialyl-Lewis X, and this interaction is pivotal for the rapid rolling of leukocytes over vascular surfaces during the initial stages of inflammation, accomplished through engagement with SELPLG. Additionally, P-selectin forms interactions with SNX17 and mediates adhesion and rolling of neutrophils through its association with SELPLG/PSGL1 and PODXL2. This interaction is contingent on the sialyl-Lewis X epitope of SELPLG and PODXL2, as well as the specific tyrosine sulfation on SELPLG.

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

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