Product Data Sheet

Proteins



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 | WTYHYSTKAY SWNISRKYCQ NRYTDLVAIQ NKNEIDYLNK VLPYYSSYYW IGIRKNNKTW TWVGTKKALT NEAENWADNE PNNKRNNEDC VEIYIKSPSA PGKWNDEHCL KKKHALCYTA SCQDMSCSKQ GECLETIGNY TCSCYPGFYG PECEYVRECG ELELPQHVLM NCSHPLGNFS FNSQCSFHCT DGYQVNGPSK LECLASGIWT NKPPQCLAAQ CPPLKIPERG NMTCLHSAKA FQHQSSCSFS CEEGFALVGP EVVQCTASGV WTAPAPVCKA VQCQHLEAPS EGTMDCVHPL TAFAYGSSCK FECQPGYRVR GLDMLRCIDS GHWSAPLPTC EAISCEPLES PVHGSMDCSP SLRAFQYDTN CSFRCAEGFM LRGADIVRCD NLGQWTAPAP VCQALQCQDL PVPNEARVNC SHPFGAFRYQ SVCSFTCNEG LLLVGASVLQ CLATGNWNSV PPECQAIPCT PLLSPQNGTM TCVQPLGSSS YKSTCQFICD EGYSLSGPER LDCTRSGRWT DSPPMCEAIK CPELFAPEQG SLDCSDTRGE FNVGSTCHFS CDNGFKLEGP NNVECTTSGR WSATPPTCKG IASLPTPGLQ CPALTTPGQG TMYCRHPPGT FGFNTTCYFG CNAGFTLIGD STLSCRPSGQ WTAVTPACRA VKCSELHVNK PIAMNCSNLW GNFSYGSICS FHCLEGQLLN GSAQTACQEN GHWSTTVPTC |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biological Activity | 1. Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells. The ED ₅₀ for this effect is 14.18 μg/mL, corresponding to a specific activity is 70.5219 units/mg. 2. 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 ≥72.39% adhesion on U937 cells (100 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. |

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| Reconsititution | It is not recommended to reconstitute to a concentration less than 100 μ g/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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