

Recombinant Mouse Selp

Cat. No. Selp-8340M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Selp was expressed in NSO Cells.
Species	Mouse
Source	Mammalian Cells
Description	Plasma Selectin (P-selectin) is a cell adhesion molecule (CAM) found in granules in endothelial cells (cells lining blood vessels) and activated platelets. P-Selectin is expressed on activated endothelium and platelets where it can bind monocytes, neutrophils, stimulated T cells, and platelets. P-selectin plays an essential role in the initial recruitment of leukocytes (white blood cells) to the site of injury during inflammation. When endothelial cells are activated by molecules such as histamine or thrombin during inflammation, P-selectin moves from an internal cell location to the endothelial cell surface. Thrombin is one trigger which can stimulate endothelial-cell release of P-selectin and recent studies suggest an additional Ca^{2+}-independent pathway involved in release of P-selectin. P-selectin-mediated adhesion is an important factor in the development of early atherosclerotic lesions.
Form	This recombinant protein was 0.2 μ m filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Molecular Mass	The predicted molecular weight of Recombinant Mouse P-Selectin is Mr 99.1 kDa (monomer). However, the actual molecular weight as observed by migration on SDS-

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PAGE is Mr 190-200 kDa.

AA Sequence

wtynystka yswnnsvfc rrhftdlvai qnkneiahln dvipffnsyy wigirkinnk wtwvgtnktl
 teeaenwadn epnnkknqd cveiyiksns apgkwndepc fkrkralcyt ascqdmcsn qgecietigs
 ytcscypgfy gpeceyvkec gkvnipqhl mncshplgef sfnsqctfsc aegyeldgpg elqclasgiw
 tnnppkcav qcqsleapph gtmacmhpia afaydssckf ecqpgyrarg snthlctgsg qwseplptce
 aiaceppeip ihgsmdcvps tgtfgynssc tflcaegfvl kgndaiqcad sgqwtapapf cealqcpefp
 vpskaqvncs dpfgltlyqs vcsfscdegslvgasvirc latghwngap pecqavscap mlspengsmt
 cvqplgnsty kstcqfmcde gfyfsgperl dcspsghwtg tpptceaikc pgifapeqgn ldcshvhgef
 gvgsichfsc nedfellgse nvectvsgrw sappptckgi tslpapavrc paltpgggt mscqhhlgf
 gpnttcyfgc ktgftlrgan slrcrasgqw tavtpmcra v kselhmdta vamncsnpwg nfygstctf
 qcpegqslng svratcredg hwsdamptcq agltiqeai egrmdpkscd kthtppcpa pellggpsvf
 lfppkpkdtl misrtpevtc vvdvshedp evkfnwyvdg vevhnaktkp reeqynstyr vsvltvlhq
 dwlngkeykc kvsnkappap iektiskakg qprepvytl ppsrdeltkn qvsltlcvkg fypsdiavew
 esngqpenny ktpplvdsd gsfflysklt vdkswqqgn vfscsvmhea lnhhytqksl slspgk

Endotoxin

<1.0 eu/μg="" as="" determined="" by="" the="" la="">

Purity

>90% by SDS-PAGE and analyzed by silver stain.

Storage

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name

Selp selectin, platelet [*Mus musculus*]

Official Symbol

Selp

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Synonyms	SELP; selectin, platelet; P-selectin; granule membrane protein 140; CD62 antigen-like family member P; leukocyte-endothelial cell adhesion molecule 3; platelet activation dependent granule-external membrane protein; Grmp; CD62P; LECAM3; PADGEM; GMP-140; MGC129336; MGC129337;
Gene ID	20344
mRNA Refseq	NM_011347
Protein Refseq	NP_035477
Pathway	Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis, organism-specific biosystem; IL-3 Signaling Pathway, organism-specific biosystem; Malaria, organism-specific biosystem; Malaria, conserved biosystem;
Function	binding; calcium-dependent protein binding; eukaryotic cell surface binding; fucose binding; glycoprotein binding; heparin binding; lipopolysaccharide binding; oligosaccharide binding; protein binding; sialic acid binding; sialic acid binding; sugar binding;