

Recombinant Mouse SELP/selectin P/P-selectin Protein (His Tag)



Catalog Number:PKSM040507

Note: Centrifuge before opening to ensure complete recovery of vial contents.

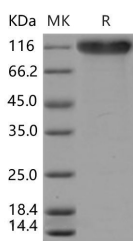
Description

Synonyms	CD62P;GMP-140;Grmp;LECAM3;PADGEM
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Met1-Ala709
Accession	Q01102
Calculated Molecular Weight	74.0 kDa
Observed molecular weight	116 kDa
Tag	C-His
Bioactivity	Measured by the ability of the immobilized protein to support the adhesion of U937 cells. When 5×10^4 cells/well are added to SELP-coated plates (5 $\mu\text{g}/\text{mL}$ and 100 $\mu\text{L}/\text{well}$), approximately > 70% cells will adhere specifically after 60 minutes at 37°C.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

P selectin (SELP) is a 140kDa protein that is stored in the alpha-granules of platelets and Weibel-Palade bodies of endothelial cells. SELP mediates rapid rolling of leukocyte rolling over vascular surfaces during the initial steps in inflammation through interaction with PSGL1. P selectin is a cell adhesion molecule on the surface of activated endothelial cells. Cellular adhesion molecules are a large family of proteins that attach the cytoskeleton and intracellular

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signaling cascades with the extracellular environment. SELP is a calcium-dependent receptor for myeloid cells that binds to sialylated forms of Lewis blood group carbohydrate antigens on neutrophils and monocytes. This protein redistributes to the plasma membrane during platelet activation and degranulation and mediates the interaction of activated endothelial cells or platelets with leukocytes.

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