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### Recombinant Mouse Sele Protein(His Tag)

#### Catalog Number: PDMM100051

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

Description		
Species	Mouse	
Source	Mammalian-derived Mouse Sele Elam-1 proteins Trp22-Pro557, with an C-terminal His	
Calculated MW	58.9 kDa	
Observed MW	70-100 kDa	
Accession	Q00690	
<b>Bio-activity</b>	Not validated for activity	
Properties		
Purity	> 90% as determined by reducing SDS-PAGE.	
Endotoxin	< 1.0 EU/mg 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 $< -20^{\circ}C$ for 3 months.	
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.	
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with 5% Trehalose and 5%	
	Mannitol.	
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of	
	0.5 mg/mL. Concentration is measured by UV-Vis.	

Data

kDa	М	R
80	-	-
60	-	
40	-	
30	-	
20	-	
12		

SDS-PAGE analysis of Mouse Sele Elam-1 proteins, 2 µg/lane of Recombinant Mouse Sele Elam-1 proteins was resolved with an SDS-PAGE under reducing conditions, showing bands at 58.9KD

#### Background

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E-selectin, also known as endothelial leukocyte adhesion molecule-1 (ELAM-1) and CD62E, is an inducible adhesion molecule that is expressed on the surfaces of stimulated vascular endothelial cells and is sometimes involved in cancer cell metastasis. E-selectin exhibits a complex mosaic structure consisting of a large extracellular region comprised of a lectin domain, an EGF-like domain, and a short consensus repeat (SCR) domain, followed by a transmembrane region and a relatively short (32 aa) cytoplasmic tail. As a member of the LEC-CAM or selectin family, E-selectin recognises and binds to sialylated carbohydrates including members of the Lewis X and Lewis A families found on monocytes, granulocytes, and T-lymphocytes. E-selectin supports rolling and stable arrest of leukocytes on activated vascular endothelium, and furthermore, it was indicated that it can also transduce an activating stimulus via the MAPK cascade into the endothelial cell during leukocyte adhesion. E-selectin regulates adhesive interactions between certain blood cells and endothelium. The soluble form of E selectin (sE-selectin) is a marker of endothelial activation, and has a potential role in the pathogenesis of cardiovascular disease as raised levels have been found in hypertension, diabetes and hyperlipidemia, although its association in established atherosclerosis disease and its value as a prognostic factor is more controversial. soluble E-selectin is inversely associated with an the muscular component of the left ventricle, thereby suggesting that the lack of such a reparative factor may be associated with an cardiac remodeling in end-stage renal disease (ESRD) patients. Besides, this adhesion molecule appears to be involved in the pathogenesis of atherosclerosis.