Recombinant Human CD31/PECAM1 Protein (Fc Tag)

Catalog No. PKSH033567

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

Description		
Synonyms	Platelet endothelial cell adhesion molecule;PECAM-1;EndoCAM;GPIIA;PECA1;CD31;PECAM1	
Species	Human	
Expression Host	HEK293 Cells	
Sequence	Gln28-Lys601	
Accession	AAH22512.1	
Calculated Molecular Weight	91.6 kDa	
Observed molecular weight	110-130 kDa	
Tag	C-Fc	
Bioactivity	Not validated for activity	
Properties		
Purity	> 95 % as determined by reducing SDS-PAGE.	
Endotoxin	< 1.0 EU per μ g 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 a 0.2 µm filtered solution of 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		

kDa	МК	R
170 130		
95	-	
72 55	-	
43		
34	-	
26	-	

> 95 % as determined by reducing SDS-PAGE.

Background

Semaphorin-4G is the least characterized of the seven known Class 4 transmembrane semaphorin glycoproteins. Class 4

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semaphorins play multiple roles in cell attraction or repulsion, such as development of nerve pathways in the brain, promoting or inhibiting proliferation, in some cases organizing immune cell interactions. Semaphorin-4G can be expressed early in development in the central and peripheral nervous systems and in sensory ograns, such as cochlea, olfactory epithelium, vomeronasal organ and retina. In adults, Semaphorin-4G can be found in liver,kidney and brain. The human Semaphorin-4G precursor consists of a 17 amino acids signal sequence, a 658 amino acids extracellular domain, a 21 amino acids transmembrane domain, a 142 amino acids cytoplasmic domain with one Ser/Thr phosphorylation site.

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