

Recombinant Protein Technical Manual Recombinant Human ESAM Protein (aa 30-247, Fc Tag) RPES2806

Product Data:

Product	SKU:	RPES2806
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Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q96AP7

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Protein	

Molecular Mass:	50.8 kDa
AP Molecular Mass:	60 kDa
Tag:	C-Fc
Bio-activity:	
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	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 μ m filtered solution of 20mM PB,150mM NaCl,pH7.4.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	Endothelial Cell-Selective Adhesion Molecule; ESAM

Sequence: Gln30-Ala247

Background:

Endothelial Cell Adhesion Molecule (ESAM) is a 55 kDa type I transmembrane glycoprotein member of the JAM family of immunoglobulin superfamily molecules. The 390 amino acid Human ESAM contains a 216 amino acid extracellular domain (ECD) with a V-type and a C2-type immunoglobulin (Ig) domain. The ECD of human and mouse ESAM share 69% amino acid identity. ESAM is specifically expressed at endothelial tight junctions and on activated platelets and performs homophilic adhesion activity. The adaptor protein membrane-associated guanylate kinase MAGI has been identified as an intracellular binding partner of ESAM. In addition, ESAM at endothelial tight junctions participates in the migration of neutrophils through the vessel wall, possibly by influencing endothelial cell contacts. ESAM-deficient mice were described with lowered angiogenic potential, and accordingly, overexpression of ESAM is closely associated with certain tumor growth and metastasis.