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Datasheet for ABIN1691594 ESAM Protein (AA 30-247) (Fc Tag)



Overview

Quantity:	50 µg
Target:	ESAM
Protein Characteristics:	AA 30-247
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ESAM protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human Endothelial Cell Adhesion Molecule/ESAM (C-Fc)
Coquepoor	
Sequence:	QLQLHLPANR LQAVEGGEVV LPAWYTLHGE VSSSQPWEVP FVMWFFKQKE KEDQVLSYIN
	GVTTSKPGVS LVYSMPSRNL SLRLEGLQEK DSGPYSCSVN VQDKQGKSRG HSIKTLELNV
	LVPPAPPSCR LQGVPHVGAN VTLSCQSPRS KPAVQYQWDR QLPSFQTFFA PALDVIRGSL
	SLTNLSSSMA GVYVCKAHNE VGTAQCNVTL EVSTGPGAVD DIEGRMDEPK SCDKTHTCPP
	CPAPELLGGP SVFLFPPKPK DTLMISRTPE VTCVVVDVSH EDPEVKFNWY VDGVEVHNAK
	TKPREEQYNS TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL PAPIEKTISK AKGQPREPQV
	YTLPPSREEM TKNQVSLTCL VKGFYPSDIA VEWESNGQPE NNYKTTPPVL DSDGSFFLYS
	KLTVDKSRWQ QGNVFSCSVM HEALHNHYTQ KSLSLSPGK
Characteristics:	Recombinant Human Endothelial Cell Adhesion Molecule/ESAM (C-Fc)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

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Product Details

Endotoxin Level:

Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	ESAM
Alternative Name:	Endothelial Cell Adhesion Molecule/ESAM (ESAM Products)
Background:	Recombinant Human Endothelial Cell Adhesion Molecule/ESAM is produced by our
	mammalian expression system. The target protein is expressed with sequence (GIn30-Ala247)
	of Human ESAM fused with a FC tag at the C-terminus.
	Endothelial Cell Adhesion Molecule (ESAM) is a 55 kDa type I transmembrane glycoprotein
	member of the JAM family of immunoglobulin superfamily molecules. The 390 AA Human
	ESAM contains a 216 AA extracellular domain (ECD) with a V-type and a C2-type
	immunoglobulin (Ig) domain. 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-1 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. ESAM
	is expressed on endothelial cells, activated platelets and megakaryocytes. The ECD of human
	and mouse ESAM share 69 % AA identity.
Molecular Weight:	50.8 kDa
UniProt:	Q96AP7
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 μ g/mL.
	Dissolve the lyophilized protein in ddH20.
	Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
	Aliquots of reconstituted samples are stable at < -20°C for 3 months.