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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 $\mu$ 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.<br>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.  |