

# Recombinant Human Junctional Adhesion Molecule 3, His-tagged

**Cat. No.** JAM3-7155H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human JAM3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 26 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 32-241aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. JAM3 is localized in the tight junctions between high endothelial cells. Unlike other proteins in this family, this protein is unable to adhere to leukocyte cell lines and only forms weak homotypic interactions. JAM3 is a member of the junctional adhesion molecule protein family and acts as a receptor for another member of this family. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM EDTA, 5mM DTT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | 26 kDa (234aa), confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH GSMVNLKSS NRTPVVQEFE SVELSCIITD<br>SQTSDPRIEW KKIQDEQTTY VFFDNKIQGD LAGRAEILGK TSLKIWNVTR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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RDSALYRCEV VARNDRKEID EIVIELTVQV KPVTPVCRVP KAVPVGKMAT  
LHCQESEGHP RPHYSWYRND VPLPTDSRAN PRFRNSSFHL NSETGTLVFT  
AVHKDDSGQY YCIASNDAGS ARCEEQEMEV YDLN

**Purity** >90% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [JAM3 junctional adhesion molecule 3 \[ Homo sapiens \]](#)

**Official Symbol** JAM3

**Synonyms** JAM3; junctional adhesion molecule 3; junctional adhesion molecule C; JAM C; JAMC; JAM-2; JAM-3; JAM-C; FLJ14529;

**Gene ID** [83700](#)

**mRNA Refseq** [NM\\_001205329](#)

**Protein Refseq** [NP\\_001192258](#)

**MIM** [606871](#)

**UniProt ID** [Q9BX67](#)

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 11q25                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Pathway</b>             | Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori infection, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori infection, conserved biosystem; Hemostasis, organism-specific biosystem; Integrin cell surface interactions, organism-specific biosystem; |
| <b>Function</b>            | integrin binding; protein binding;                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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