Junctional Adhesion Molecule 3 (JAM3) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Junctional Adhesion Molecule 3 (JAM3), Recombinant Protein
Full Product Name	Recombinant Human Junctional Adhesion Molecule 3
Product Gene Name	JAM3 recombinant protein
Product Synonym Names	JAM3 Human; Junctional Adhesion Molecule 3 Human Recombinant; Junctional Adhesion Molecule 3; Junctional Adhesion Molecule C; JAM-C; JAM-2; JAM-3
Sequence	MGSSHHH HHH SSGLVPRGSH MGSMVN LKSS NRTPVVQEFE SVELSCIITD SQTSDPRIEW KKIQDEQTTY VFFDNKIQGD LAGRAEILGK TSLKIWNVTR RDSALYRCEV VARNDRKEID EIVIELTVQV KPVTPVCRVP KAVPVGKMAT LHCQESEGHP RPHYSWYRND VPLPTDSRAN PRFRNSSFHL NSETGTLVFT AVHKDDSGQY YCIASNDAGS ARCEEQEMEV YDLN
Host	E Coli
Form/Format	The JAM3 solution contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 2mM EDTA, 5mM DTT and 50% glycerol. Sterile Filtered colorless solution.
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Molecular Weight	29,223 Da
OMIM	606871
3D Structure	ModBase 3D Structure for Q9BX67
Product Categories/Family for JAM3 recombinant protein	Recombinant & Natural Proteins; Recombinant Proteins
Related Product Information for JAM3 recombinant protein	**Description:** JAM3 Human Recombinant produced in E Coli is a single polypeptide chain containing 234 amino acids (32-241) and having a molecular mass of 26.0 kDa.JAM3 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. **Introduction:** JAM3 belongs to the junctional adhesion molecule protein family and functions as a receptor for another member of this family. JAM3 plays a part in cell-cell adhesion. The soluble form of JAM3 is a mediator of angiogenesis. JAM3 is a counter-receptor for ITGAM, mediating leukocyte-platelet interactions and is involved in the regulation of transepithelial migration of polymorphonuclear neutrophils (PMN). A mutation in an intron of the JAM3 gene is linked with hemorrhagic destruction of the brain, subependymal calcification, and congenital cataracts.
Other Notes	Small volumes of JAM3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for JAM3 purchase	MBS145960 is a recombinant protein targeting JAM3. Also known as Recombinant Human Junctional Adhesion Molecule 3. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for JAM3. It may not necessarily be applicable to this product.

NCBI GI #	328927057
NCBI GeneID	83700
NCBI Accession #	NP_001192258.1
UniProt Primary Accession #	Q9BX67

UniProt Secondary Accession #	Q8WWL8; Q96FL1; B3KWG9
UniProt Related Accession #	Q9BX67
GenBank Nucleotide #	NM_001205329.1
NCBI Official Full Name	junctional adhesion molecule C isoform 2
NCBI Official Synonym Full Names	junctional adhesion molecule 3
NCBI Official Symbol	JAM3
NCBI Official Synonym Symbols	JAMC; JAM-2; JAM-3; JAM-C
UniProt Protein Name	Junctional adhesion molecule C
UniProt Synonym Protein Names	JAM-2; Junctional adhesion molecule 3; JAM-3
Protein Family	Junctional adhesion molecule
UniProt Gene Name	JAM3
UniProt Synonym Gene Names	JAM-C; JAM-3
UniProt Entry Name	JAM3_HUMAN
NCBI Protein Information	junctional adhesion molecule C
NCBI Summary for JAM3	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. The protein encoded by this immunoglobulin superfamily gene member is localized in the tight junctions between high endothelial cells. Unlike other proteins in this family, the this protein is unable to adhere to leukocyte cell lines and only forms weak homotypic interactions. The encoded protein is a member of the junctional adhesion molecule protein family and acts as a receptor for another member of this family. A mutation in an intron of this gene is associated with hemorrhagic destruction of the brain, subependymal calcification, and congenital cataracts. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Apr 2011]
UniProt Comments for JAM3	JAM3: Participates in cell-cell adhesion. It is a counter- receptor for ITGAM, mediating leukocyte-platelet interactions and is involved in the regulation of transepithelial migration of polymorphonuclear neutrophils (PMN). The soluble form is a mediator of angiogenesis. Defects in JAM3 are the cause of hemorrhagic destruction of the brain with subependymal calcification and cataracts (HDBSCC). A syndrome characterized by congenital cataracts and severe brain abnormalities apparently resulting from hemorrhagic destruction of the brain tissue, including the cerebral white matter and basal ganglia. Patients manifest profound developmental delay, and other neurologic features included seizures, spasticity, and hyperreflexia. Brain imaging shows multifocal intraparenchymal hemorrhage with associated liquefaction and massive cystic degeneration, and calcification in the subependymal region and in brain tissue. Belongs to the immunoglobulin superfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Cell adhesion Chromosomal Location of Human Ortholog: 11q25 Cellular Component: Golgi apparatus; desmosome; extracellular space; tight junction; plasma membrane; integral to membrane Molecular Function: integrin binding; protein binding; protein homodimerization activity; protein heterodimerization activity Biological Process: myelination; adaptive immune response; extracellular matrix organization and biogenesis; axon regeneration; cell-matrix adhesion; transmission of nerve impulse; neutrophil homeostasis; leukocyte migration during inflammatory response; myeloid progenitor cell differentiation; establishment of cell polarity; angiogenesis; blood coagulation; leukocyte migration; spermatid development Disease: Hemorrhagic Destruction Of The Brain, Subependymal Calcification, And Cataracts
Research Articles on JAM3	**1.** Function of Jam-B/Jam-C interaction in homing and mobilization of human and mouse hematopoietic stem and progenitor cells.

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