

# Active Recombinant Mouse Junction Adhesion Molecule 3, Fc-tagged

**Cat. No.** Jam3-5667M    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant Mouse Jam3 protein was expressed in Murine myeloma cell line with the Fc part of Human IgG1 Pro100-Lys330(C-terminus) and Mouse Jam3 Val32-Asn241(N-terminus).

**Species**      Mouse

**Source**      Mammalian Cells

**Protein Length**      32-241 a.a.

**Description**      The family of junctional adhesion molecules (JAM), comprised of at least three members, are type I transmembrane receptors belonging to the immunoglobulin(Ig) superfamily. These proteins are localized in the tight junctions between endothelial cells or epithelial cells. Some family members are also found on blood leukocytes and platelets. Mouse Jam3cDNA predicts a 310 amino acid (aa) residue precursor protein with a putative 31aa signal peptide, a 210 aa extracellular region containing two Ig domains, an 18 aa transmembrane domain and a 51 aa cytoplasmic domain containing a PDZ-binding motif and a PKC phosphorylation site.

**Form**      Lyophilized from a 0.2 µm filtered solution in Tris-Citrate and NaCl.

**N-terminal Sequence**      Val32

**Molecular Weight**      50 kDa (monomer)

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<b>Activity</b>	Measured by its ability to inhibit the adhesion of J45.01 human acute T lymphoblastic leukemia cells on immobilized JAM-2 (VE-JAM)/Fc Chimera. The ED50 for this effect is typically 0.1-0.5 µg/mL in the presence of 1x10 <sup>5</sup> cells/well. Each well was coated with 100 µL of a 0.2 µg/mL solution of rhJAM-2(VE-JAM)/Fc Chimera.
<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>SDS-PAGE</b>	64 kDa, reducing conditions.
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	100 µg/mL in sterile PBS
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Jam3 junction adhesion molecule 3 [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">Jam3</a>
<b>Synonyms</b>	Jam3; junction adhesion molecule 3; JAM-2; junction cell adhesion molecule 3; junction cell adhesion molecule C; junctional adhesion molecule 3; junctional adhesion molecule C; 1110002N23Rik, C85515, JAM-3, JAM-C
<b>Gene ID</b>	<a href="#">83964</a>
<b>mRNA Refseq</b>	<a href="#">NM_023277</a>

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<b>Protein Refseq</b>	NP_075766
<b>UniProt ID</b>	Q9D8B7
<b>Chromosome Location</b>	9
<b>Pathway</b>	Cell adhesion molecules (CAMs); Cell surface interactions at the vascular wall; Hemostasis; Integrin cell surface interactions; Leukocyte transendothelial migration; Signal Transduction; Tight junction
<b>Function</b>	integrin binding; protein binding; protein heterodimerization activity

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