

JAM-A/CD321 Protein, Rat (HEK293, His)

Cat. No.:	HY-P73853
Synonyms:	Junctional Adhesion Molecule A; JAM-A; JAM-1; PAM-1; CD321; F11R; JCAM
Species:	Rat
Source:	HEK293
Accession:	Q9JHY1 (K27-G238)
Gene ID:	116479
Molecular Weight:	Approximately 25&28 kDa due to the glycosylation

PROPERTIES

AA Sequence	<div> <div> K G S V Y S P Q T A S T T A L V C Y N N T C M V S E D G G Q R A V L T C S E H D S Y T I D P K S G D V R M E A V E L N V </div> <div> V Q V P E N D S V K Q I T V P Y A D R V N Y G E V S I H L T G S P P S E Y S W F L V F D P V S A F D G G </div> <div> L P C I Y S G F S S T F S S S G I T F S V L V P P S K P T V K D G V P M L T A D S G E Y Y C E A Q N </div> <div> P R V E W K F V Q G S V T R K D N G E Y S I P S S V T I G N A K K T R A F I N S G Y G T A M R S E A </div> </div>
Biological Activity	Measured by the ability of the immobilized protein to inhibit the adhesion of Vitronectin on HUVEC cells. The ED ₅₀ for this effect is 0.1574 µg/mL in the presence of 10 ng/mL Vitronectin. Corresponding to a specific activity is 6353.24 U/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The JAM-A/CD321 protein plays a crucial role in the formation of tight junctions in epithelial cells. It is involved in the early stages of cell junction development and recruits PARD3. However, the formation of the PARD6-PARD3 complex may hinder the interaction between PARD3 and JAM1, leading to the prevention of tight junction assembly. Moreover, JAM-A/CD321 is
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involved in regulating the transmigration of monocytes, which is essential for maintaining the integrity of the epithelial barrier. It also acts as a ligand for integrin alpha-L/beta-2, facilitating the transmigration of memory T-cells and neutrophils. Additionally, JAM-A/CD321 interacts with the ninth PDZ domain of MPDZ and the first PDZ domain of PARD3, with the association between PARD3 and PARD6B possibly disrupting this interaction. Furthermore, it interacts with ITGAL (via I-domain).

Caution: Product has not been fully validated for medical applications. For research use only.

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