

Product Data Sheet

JAML/AMICA Protein, Human (HEK293, His)

HY-P75895
Junctional adhesion molecule-like; JAML; AMICA1; CREA7-1
Human
HEK293
Q86YT9/NP_001091996.1 (L20-L275)
120425
Approximately 39 kDa

DDODEDTIES	
PROPERTIES	
AA Sequence	LNDLNVSPPE LTVHVGDSAL MGCVFQSTED KCIFKIDWTL SPGEHAKDEY VLYYYSNLSV PIGRFQNRVH LMGDILCNDG SLLLQDVQEA DQGTYICEIR LKGESQVFKK AVVLHVLPEE PKELMVHVGG LIQMGCVFQS TEVKHVTKVE WIFSGRRAKE EIVFRYYHKL RMSVEYSQSW GHFQNRVNLV GDIFRNDGSI MLQGVRESDG GNYTCSIHLG NLVFKKTIVL HVSPEEPRTL VTPAALRPLV LGGNQL
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of A549 Human non-small cell lung cancer cells When 5×10 ⁴ cells/well are added to rhAMICA/Fc Chimera coated plates (10 μg/mL, 100 μL/well), approximately 87.96% will adhere after 1 hour at 37⊠.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	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

JAML, a transmembrane protein residing on the plasma membrane of leukocytes, serves as a crucial regulator of cell

migration and activation by engaging with CXADR, a receptor located on adjacent epithelial and endothelial cells. This interaction, pivotal for the activation of gamma-delta T-cells, a subset involved in tissue homeostasis and repair, induces downstream signaling events in response to epithelial CXADR-binding. JAML-mediated signaling, facilitated by PI3-kinase and MAP kinases, leads to T-cell proliferation and the production of cytokines and growth factors, fostering tissue repair. Additionally, JAML plays a pivotal role in controlling leukocyte transmigration within epithelial and endothelial tissues through adhesive interactions with CXADR. In its homodimeric form, JAML actively participates in leukocyte-endothelial cell adhesion, highlighting its multifaceted role in orchestrating immune responses and tissue repair processes. Furthermore, JAML's interaction with integrins ITGA4 and ITGB1 suggests a regulatory mechanism for leukocyte-endothelial cell adhesion by modulating JAML homodimerization.

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

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