Recombinant Human JAML/AMICA Protein (His Tag)

Catalog Number: PKSH031859

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

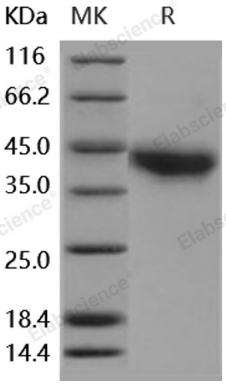
Description

Species	Human
Source	HEK293 Cells-derived Human JAML/AMICA protein Met 1-Leu 275, with an C-terminal His
Calculated MW	30.5 kDa
Observed MW	43 kDa
Accession	NP_001091996.1
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

Junctional adhesion molecules (JAMs) are endothelial and epithelial adhesion molecules involved in the recruitment of circulating leukocytes to inflammatory sites. JAML (Junctional adhesion molecule-like), also known as AMICA1 (Adhesion molecule interacting with CXADR antigen 1), a protein related to the JAM family, is restricted to leukocytes and promotes their adhesion to endothelial cells. It contains 2 extracellular immunoglobulin-like domains, a transmembrane segment, and a cytoplasmic tail involved in activation signaling. Monocytic JAML/AMICA1 plays a critical role in regulating monocyte transendothelial migration (TEM) probably via binding to the endothelial coxsackie and adenovirus receptor (CAR) and other tight junction-associated adhesive molecules. The Expression of JAML/ AMICA1 is restricted to the hematopoietic tissues with the exception of liver. JAML may function in transmigration of leukocytes through epithelial and endothelial tissues. Expressed at the plasma membrane of polymorphonuclear leukocytes, JAML/AMICA1 also enhances myeloid leukemia cell adhesion to endothelial cells.

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