Biotinylated Human JAML Protein, His,Avitag™ (MALS verified)

Catalog # JAL-H82E3

Synonyms

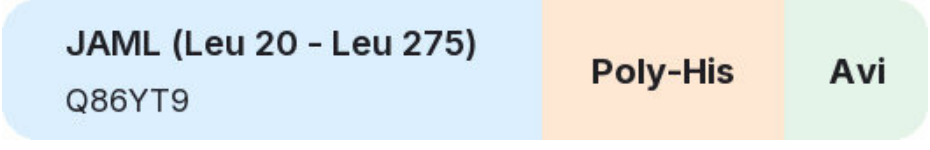
JAML

Source

Biotinylated Human JAML Protein, His,Avitag (JAL-H82E3) is expressed from human 293 cells (HEK293). It contains AA Leu 20 - Leu 275 (Accession # Q86YT9).

Predicted N-terminus: Leu 20

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 32.9 kDa. The protein migrates as 43-53 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the SABA assay / HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

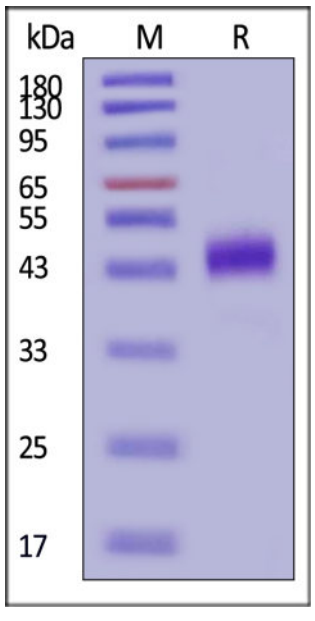
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

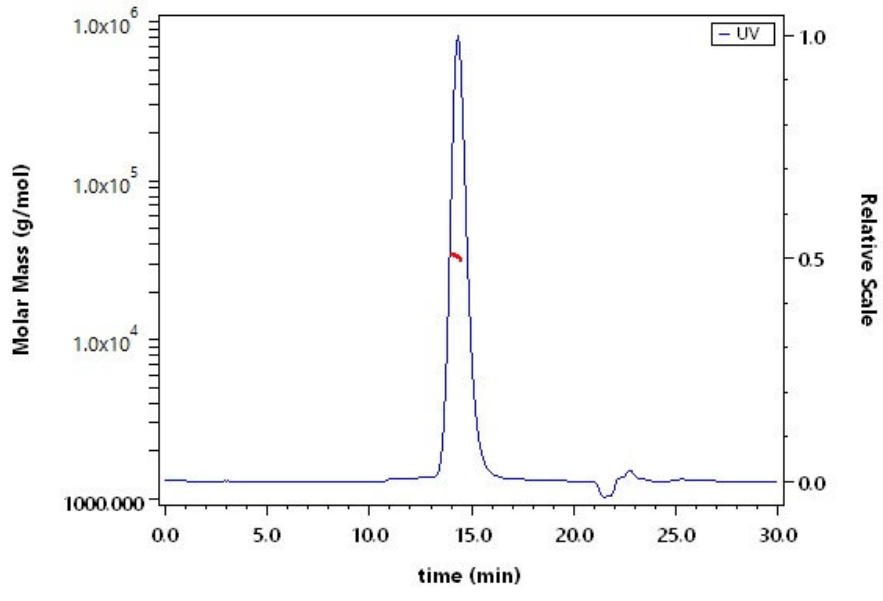
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



Biotinylated Human JAML Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Biotinylated Human JAML Protein, His,Avitag (Cat. No. JAL-H82E3) is more than 90% and the molecular weight of this protein is around 30-45 kDa verified by SEC-MALS.

Background

Junctional Adhesion Molecule-Like Protein (JAML) is a type I transmembrane glycoprotein belonging to the immunoglobulin superfamily. It consists of two extracellular immunoglobulin-like domains, a transmembrane segment, and a cytoplasmic tail. JAML functions as a costimulatory receptor for γδ T cells and $CD8^+$ T cells. Its ligand, Coxsackie and Adenovirus Receptor (CXADR), is expressed on epithelial cells. Upon binding, JAML activates PI3K and MAP kinase signaling pathways, leading to T cell proliferation and cytokine production. JAML plays critical roles in cell migration, inflammation, lipid metabolism, tissue repair, and antitumor immunity. It is being actively investigated as a promising immunotherapeutic target for multiple cancers.

Discounts, Gifts, and more!