Biotinylated Human CD9 Protein, His,Avitag™

Catalog # CD9-H82Ea

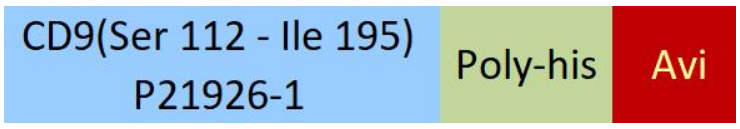
Synonym

CD9,MIC3,TSPAN29,GIG2,MRP1,BTCC1,DRAP27,5H9

Source

Biotinylated Human CD9 Protein, His,Avitag(CD9-H82Ea) is expressed from human 293 cells (HEK293). It contains AA Ser 112 - Ile 195 (Accession # P21926-1).
Predicted N-terminus: Ser 112

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 13.3 kDa. The protein migrates as 15 kDa 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 HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

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.

Storage

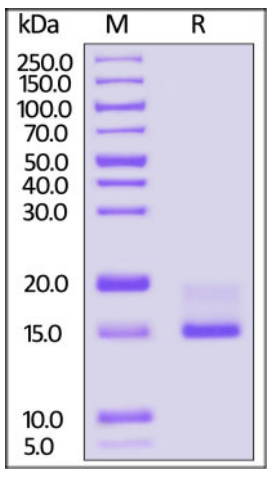
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

SDS-PAGE



Biotinylated Human CD9 Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Background

CD9 antigen is also known as tetraspanin-29 (TSPAN29), 5H9 antigen, Leukocyte antigen MIC3 (MIC3), Motility-related protein, is a multi-pass membrane protein which belongs to the tetraspanin (TM4SF) family or the transmembrane 4 superfamily. CD9 is a cell surface glycoprotein that is known to complex with integrins

and other transmembrane 4 superfamily proteins. TSPAN29 is found on the surface of exosomes. MIC3 Involved in platelet activation and aggregation, regulates paranodal junction formation and also Involved in cell adhesion, cell motility and tumor metastasis. CD9 antigen also seems to be a key part in the egg-sperm fusion during mammalian fertilization.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.