Biotinylated Human CD99 / MIC2 Protein, His,Avitag™

Catalog # CD9-H82E7

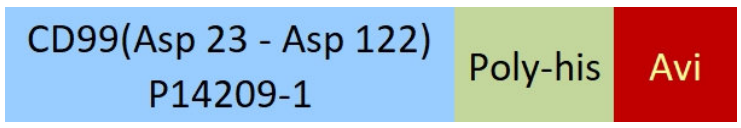
Synonym

CD99,HBA71,MIC2,MIC2X,MIC2Y,MSK5X,12E7

Source

Biotinylated Human CD99, His,Avitag(CD9-H82E7) is expressed from human 293 cells (HEK293). It contains AA Asp 23 - Asp 122 (Accession # P14209-1). Predicted N-terminus: Asp 23

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 13.7 kDa. The protein migrates as 22 kDa and 27 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

>90% 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

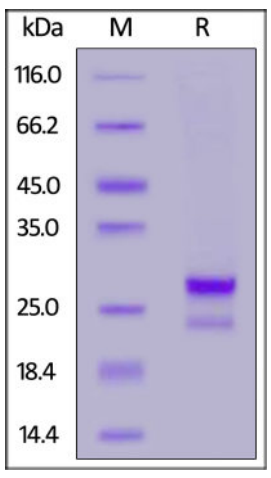
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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 CD99, 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%.

Background

CD99 antigen is also known as MIC2, single-chain type-1 glycoprotein, HBA71, MIC2X, MIC2Y, MSK5X, 12E7, which belongs to the CD99 family. CD99 / MIC2 is expressed on all leukocytes but highest on thymocytes. Involved in T-cell adhesion processes and in spontaneous rosette formation with erythrocytes. CD99 / MIC2 plays a role in a late step of leukocyte extravasation helping leukocytes to overcome the endothelial basement membrane. CD99 acts at the same site as, but independently of PECAM1. There is also experimental evidence that it binds to cyclophilin A.

Clinical and Translational Updates

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