

**Synonym**

DNAM1,CD226,PTA1

**Source**

Biotinylated Human DNAM-1, Fc,Avitag(DN1-H82F9) is expressed from human 293 cells (HEK293). It contains AA Glu 19 - Asn 247 (Accession # [NP\\_006557](#)).

Predicted N-terminus: Glu 19

**Molecular Characterization**

DNAM-1(Glu 19 - Asn 247) NP_006557	Fc(Pro 100 - Lys 330) P01857	Avi
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This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™)

The protein has a calculated MW of 54.4 kDa. The protein migrates as 66-100 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**

&gt;95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 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.*

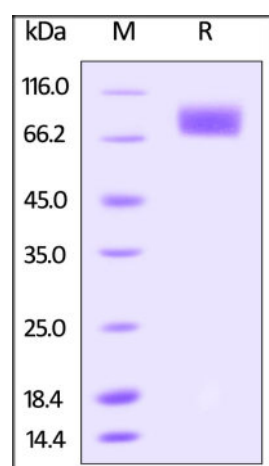
**Storage**

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

*Please avoid repeated freeze-thaw cycles.*

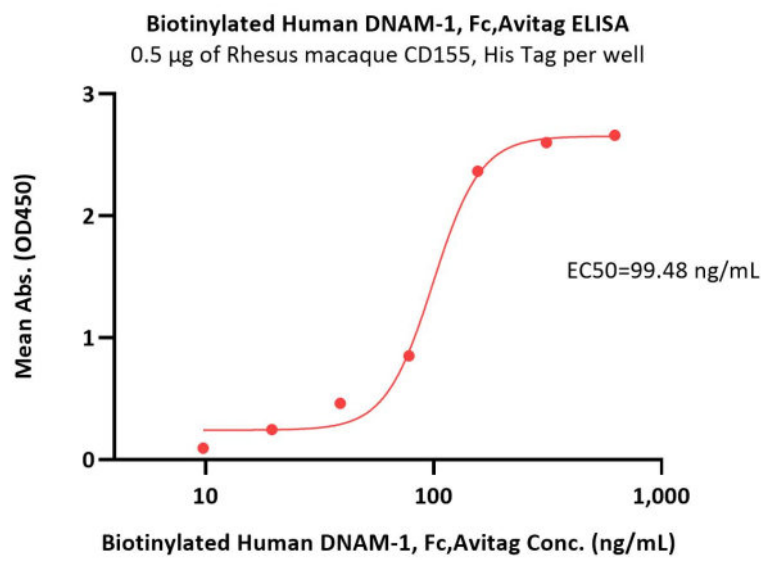
This product is stable after storage at:

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

**SDS-PAGE**

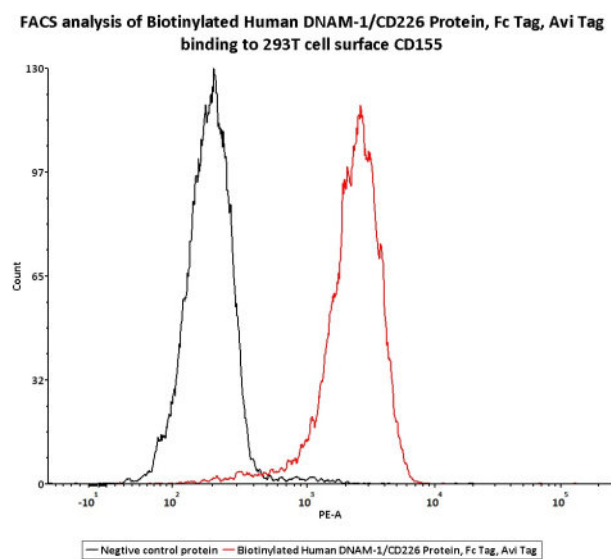
Biotinylated Human DNAM-1, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA**



Immobilized Rhesus macaque CD155, His Tag (Cat. No. CD5-R52H5) at 5 µg/mL (100 µL/well) can bind Biotinylated Human DNAM-1, Fc,Avitag (Cat. No. DN1-H82F9) with a linear range of 10-156 ng/mL (QC tested).

### Bioactivity-FACS



FACS assay shows Biotinylated Human DNAM-1, Fc,Avitag (Cat. No. DN1-H82F9) can bind to 293T cell overexpressing human CD155. The concentration of DNAM-1 is 0.03 µg/mL (Routinely tested).

### Background

DX accessory molecule 1 (DM-1), a single-pass type I membrane protein, is also known as CD226 antigen and platelet and T cell activation antigen 1 (PTA1), which contains 2 Ig-like C2-type (immunoglobulin-like) domains. DM-1 is a ~65 kDa glycoprotein expressed on the surface of natural killer cells, platelets, monocytes and a subset of T cells. DM-1 mediates cellular adhesion to other cells bearing its ligands, CD112 and CD155, and cross-linking DM-1 with antibodies causes cellular activation. Furthermore, DM-1 can interact with PVR and PVRL2.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.