



## Synonym

DNAM1,CD226,PTA1

## Source

Human DNAM-1, Fc Tag(DN1-H5257) 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
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 52.6 kDa. The protein migrates as 65-85 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22  $\mu$ m 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

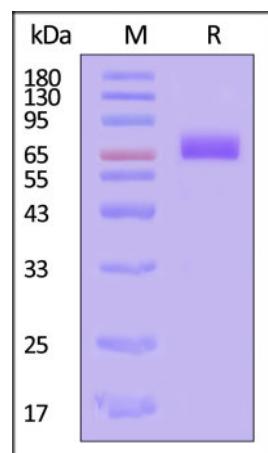
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

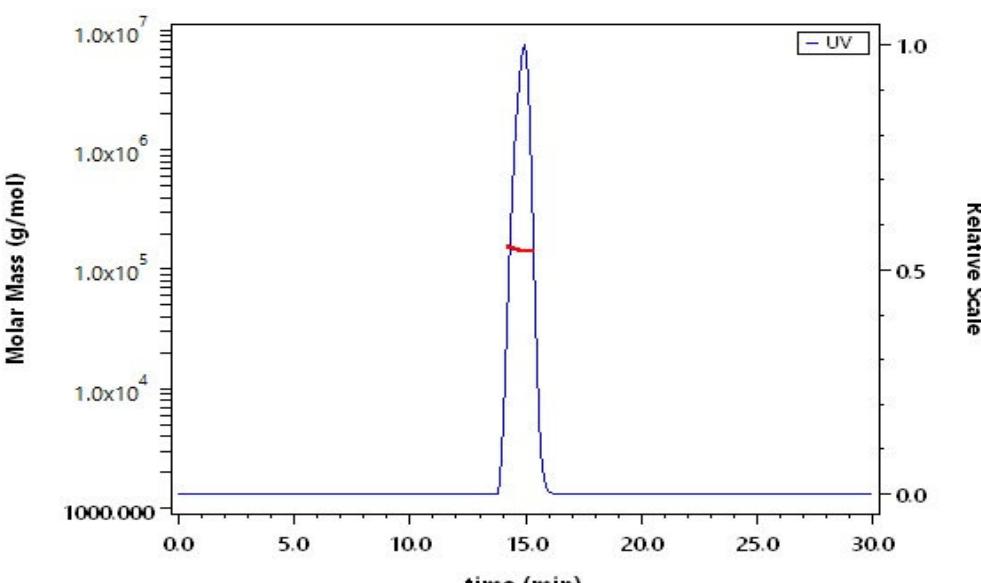
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Human DNAM-1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



The purity of Human DNAM-1, Fc Tag (Cat. No. DN1-H5257) is more than 95% and the molecular weight of this protein is around 125-155 kDa verified by SEC-MALS.

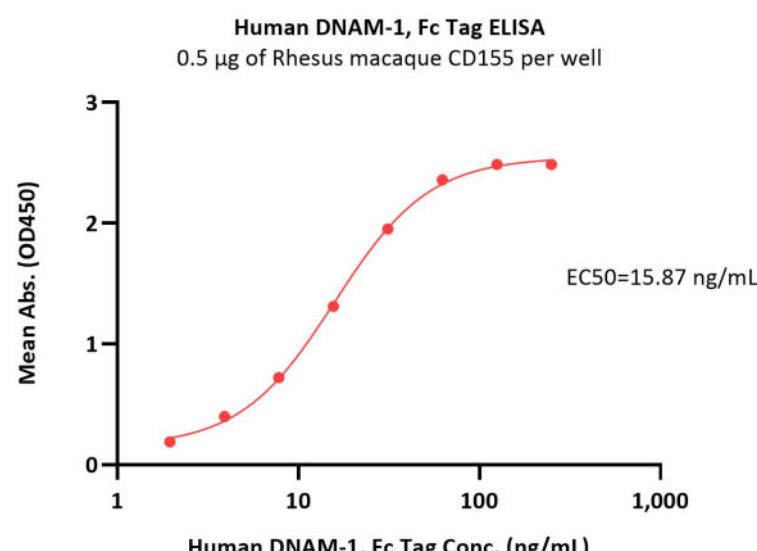
[Report](#)

## Bioactivity-ELISA

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and more!

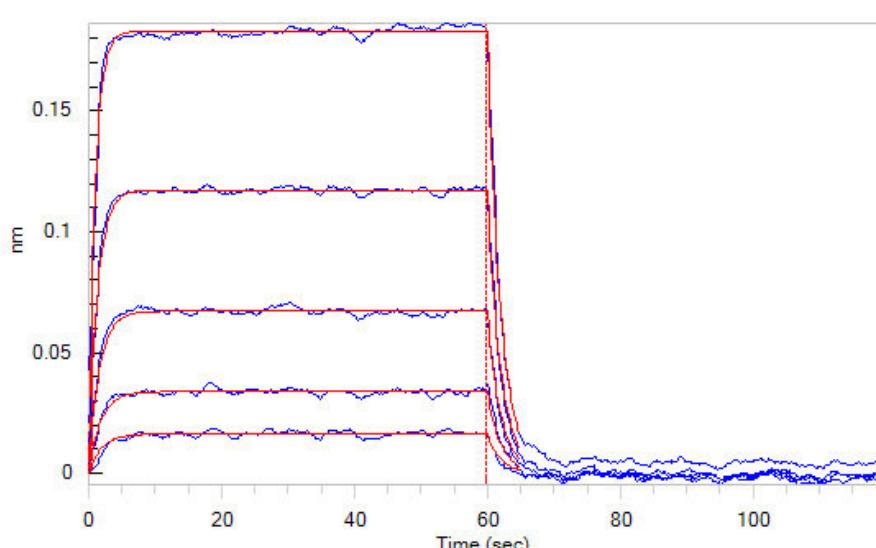


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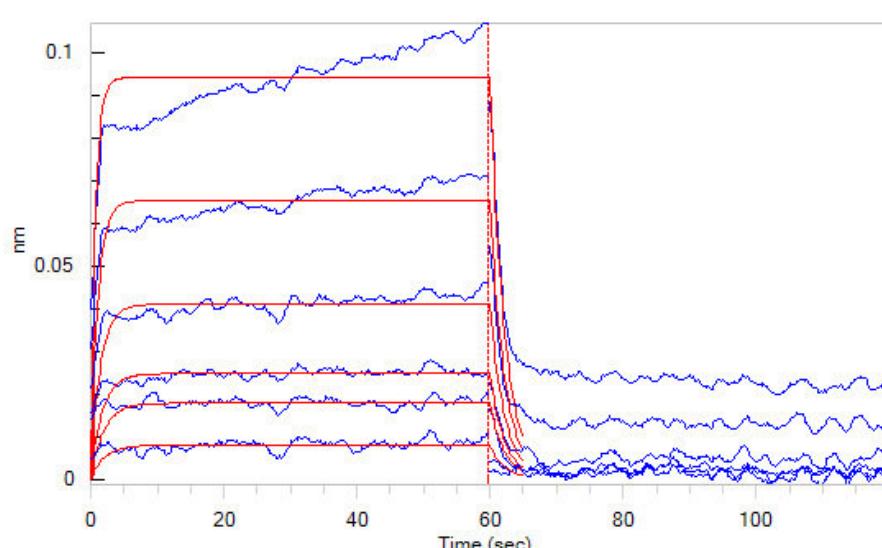


Immobilized Rhesus macaque CD155 (Cat. No. CD5-R52H5) at 5 µg/mL (100 µL/well) can bind Human DNAM-1, Fc Tag (Cat. No. DN1-H5257) with a linear range of 2-31 ng/mL (QC tested).

### Bioactivity-BLI

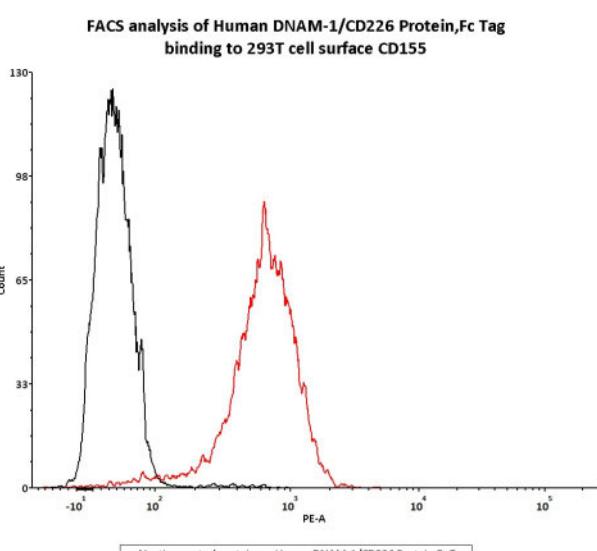


Loaded Human DNAM-1, Fc Tag (Cat. No. DN1-H5257) on Protein A Biosensor, can bind Human CD155, His Tag (Cat. No. CD5-H5223) with an affinity constant of 1.1 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



Loaded Human DNAM-1, Fc Tag (Cat. No. DN1-H5257) on Protein A Biosensor, can bind Human Nectin-2, His Tag (Cat. No. PV2-H52E2) with an affinity constant of 0.66 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

### Bioactivity-FACS



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FACS assay shows that recombinant Human DNAM-1 Protein, Fc Tag (Cat. No. DN1-H5257) can bind to 293T cell overexpressing human CD155. The concentration of DNAM-1 used is 0.03 µg/ml (Routinely tested).

## Background

DNAX accessory molecule 1 (DNAM-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. DNAM-1 is a ~65 kDa glycoprotein expressed on the surface of natural killer cells, platelets, monocytes and a subset of T cells. DNAM-1 mediates cellular adhesion to other cells bearing its ligands, CD112 and CD155, and cross-linking DNAM-1 with antibodies causes cellular activation. Furthermore, DNAM-1 can interact with PVR and PVRL2.

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