



## Synonym

DNAM1,CD226,PTA1

## Source

Cynomolgus DNAM-1, His Tag(DN1-C52H9) is expressed from human 293 cells (HEK293). It contains AA Glu 19 - Phe 252 (Accession # [A0A2K5W1Z6-1](#)).

Predicted N-terminus: Glu 19

## Molecular Characterization

DNAM-1(Glu 19 - Phe 252)  
A0A2K5W1Z6-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 28.5 kDa. The protein migrates as 40-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## 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

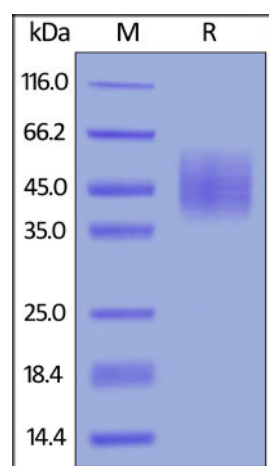
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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

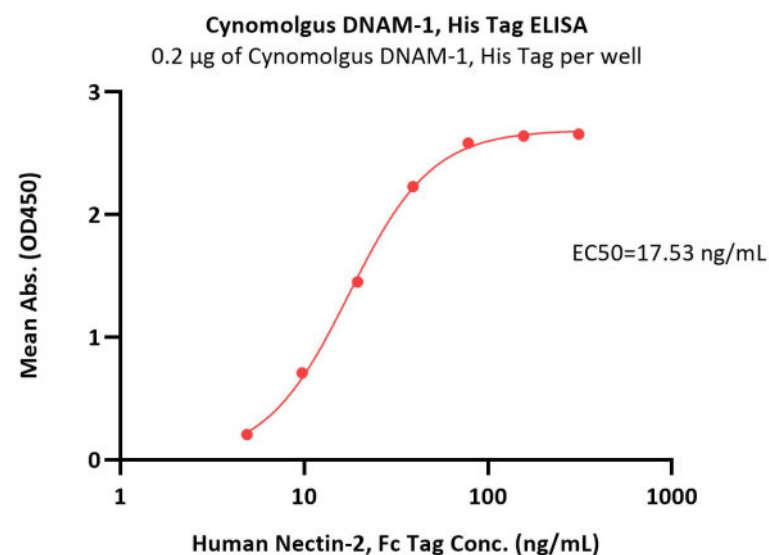
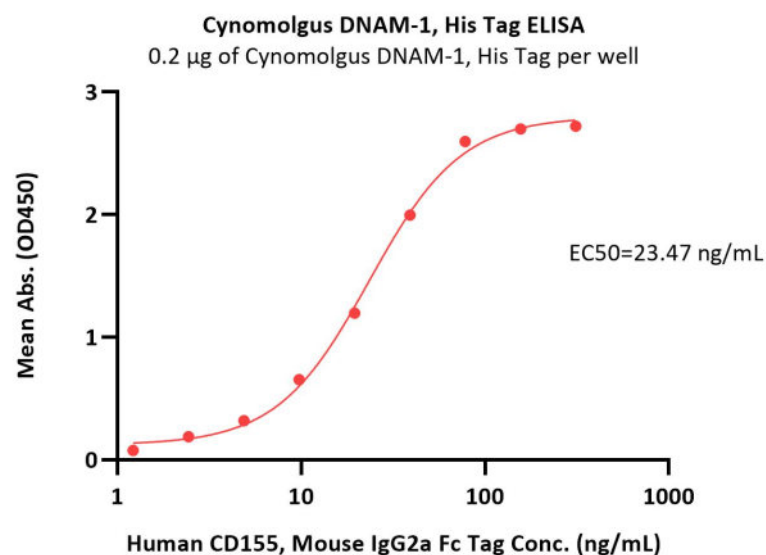


Cynomolgus DNAM-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-ELISA

Discounts, Gifts,  
and more!

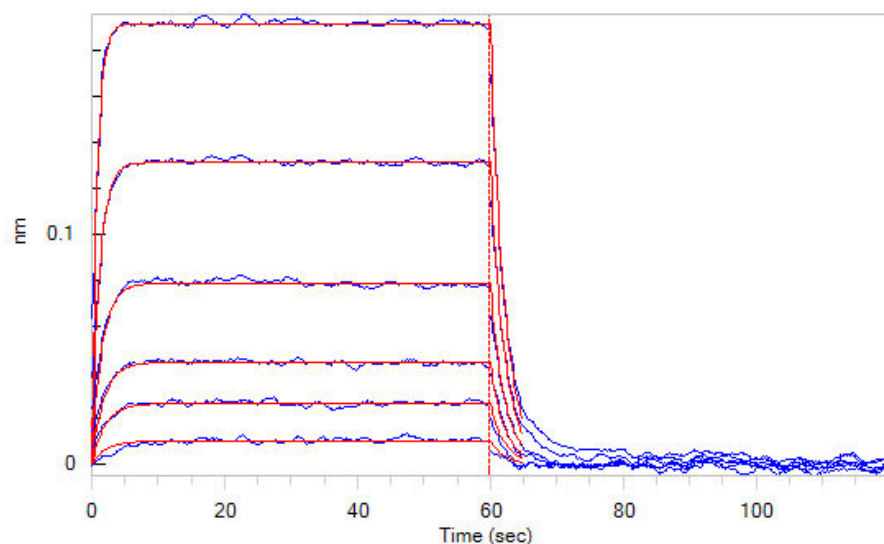




Immobilized Cynomolgus DNAM-1, His Tag (Cat. No. DN1-C52H9) at 2 µg/mL (100 µL/well) can bind Human CD155, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. CD5-H5254) with a linear range of 2-40 ng/mL (QC tested).

Immobilized Cynomolgus DNAM-1, His Tag (Cat. No. DN1-C52H9) at 2 µg/mL (100 µL/well) can bind Human Nectin-2, Fc Tag (Cat. No. PV2-H5253) with a linear range of 5-40 ng/mL (Routinely tested).

**Bioactivity-BLI**



Loaded Human CD155, Fc Tag (Cat. No. CD5-H5251) on Protein A Biosensor, can bind Cynomolgus DNAM-1, His Tag (Cat. No. DN1-C52H9) with an affinity constant of 0.88 µM as determined in BLI assay (ForteBio Octet Red96e) (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.

**Clinical and Translational Updates**

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