

# Cynomolgus DNAM-1/CD226 Protein, Ultra Low Endotoxin

Cat. No. DAM-CM101-UL

## Description

<b>Source</b>	Recombinant Cynomolgus DNAM-1/CD226 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu19-Phe252.
<b>Accession</b>	A0A2K5W1Z6-1
<b>Molecular Weight</b>	The protein has a predicted MW of 27.7 kDa. Due to glycosylation, the protein migrates to 48-68 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

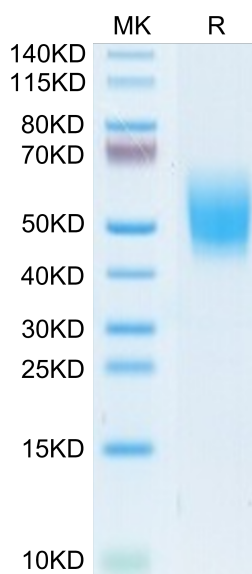
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

DNAM-1 (DNAM-1), also known as CD226, is a 65 kDa type I transmembrane glycoprotein in the immunoglobulin superfamily. 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.

## Assay Data

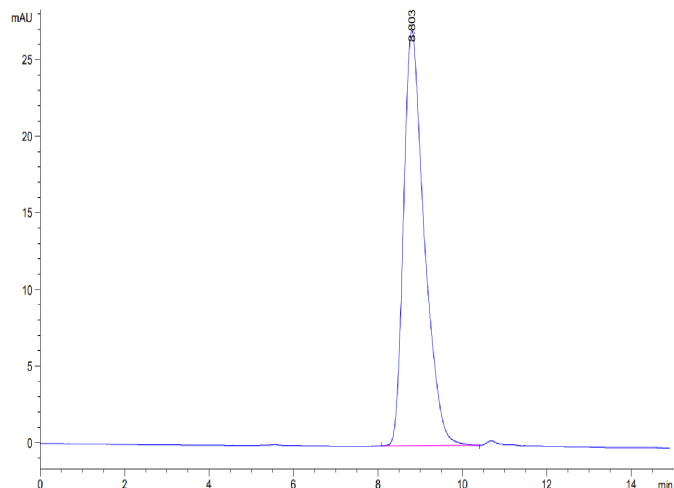
### Bis-Tris PAGE



Cynomolgus DNAM-1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

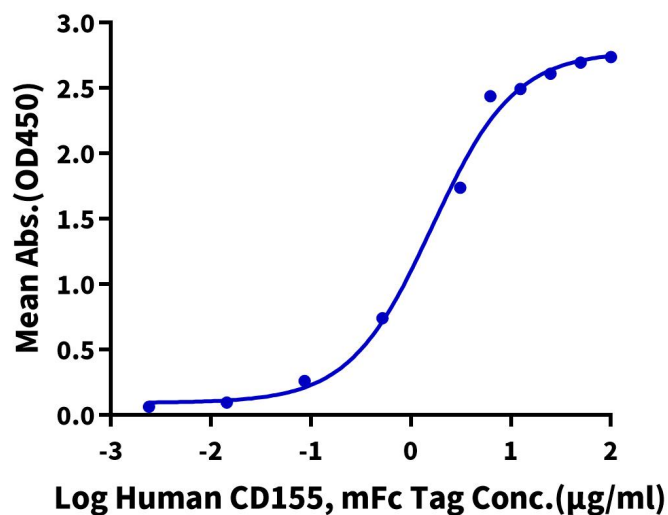


The purity of Cynomolgus DNAM-1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

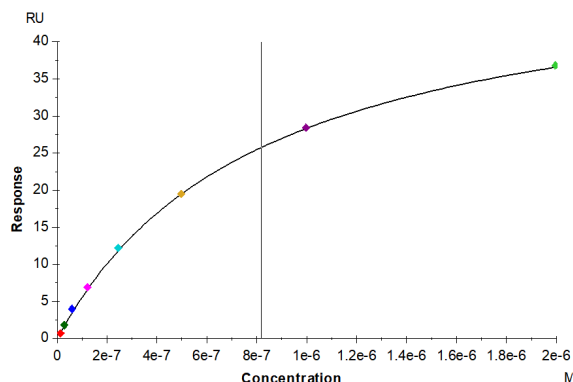
**Cynomolgus DNAM-1, His Tag ELISA**

0.5µg Cynomolgus DNAM-1, His Tag Per Well



Immobilized Cynomolgus DNAM-1, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human CD155, mFc Tag with the EC50 of 1.63µg/ml determined by ELISA (QC Test).

SPR Data



Human CD155, hFc Tag captured on CM5 Chip via Protein A can bind Cynomolgus DNAM-1, His Tag with an affinity constant of 0.82 µM as determined in SPR assay (Biacore T200).