

# Human DNAM-1/CD226 Protein

Cat. No. DAM-HM101



## Description

Source	Recombinant Human DNAM-1/CD226 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Glu19-Asn247.
Accession	Q15762
Molecular Weight	The protein has a predicted MW of 28.9 kDa. Due to glycosylation, the protein migrates to 45-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

## Formulation and Storage

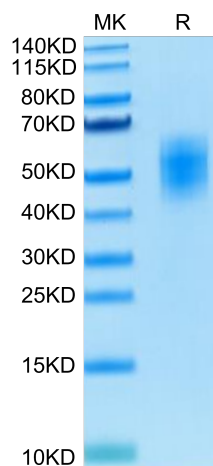
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

DNAX accessory molecule-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.

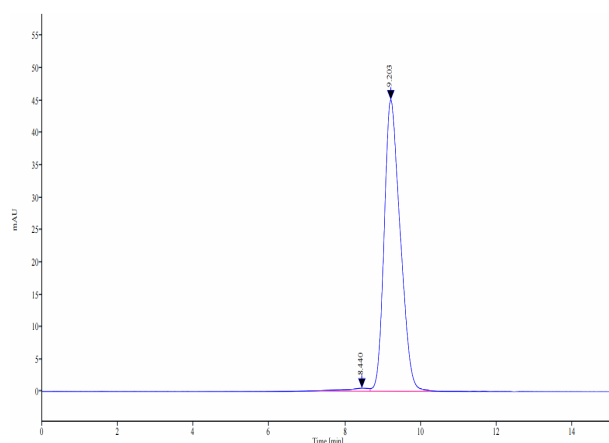
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



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

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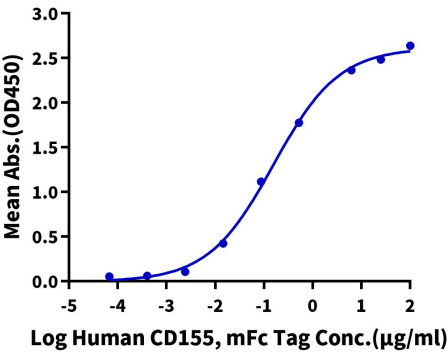


Assay Data

ELISA Data

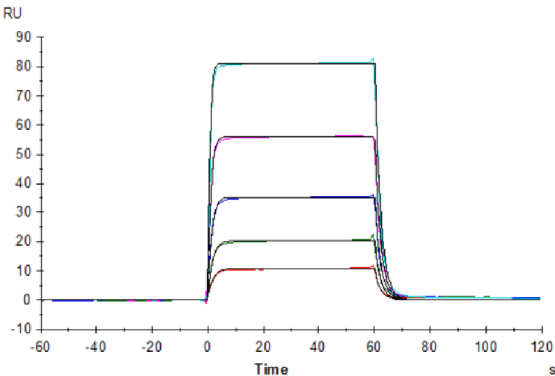
Human DNAM-1, His Tag ELISA

0.5µg Human DNAM-1, His Tag Per Well



Immobilized Human DNAM-1, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human CD155, mFc Tag with the EC50 of 0.16µg/ml determined by ELISA (QC Test).

SPR Data



Human CD155, hFc Tag captured on Protein A chip, can bind Human DNAM-1, His Tag with an affinity constant of 0.22µM as determined in a SPR assay (Biacore T200).