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 Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by SEC-HPLC

Formulation and Storage

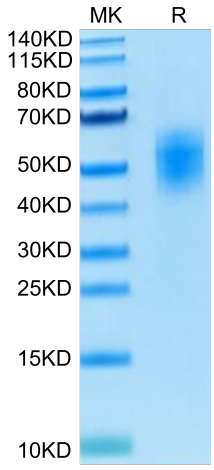
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days 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

Tris-Bis PAGE



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

SEC-HPLC

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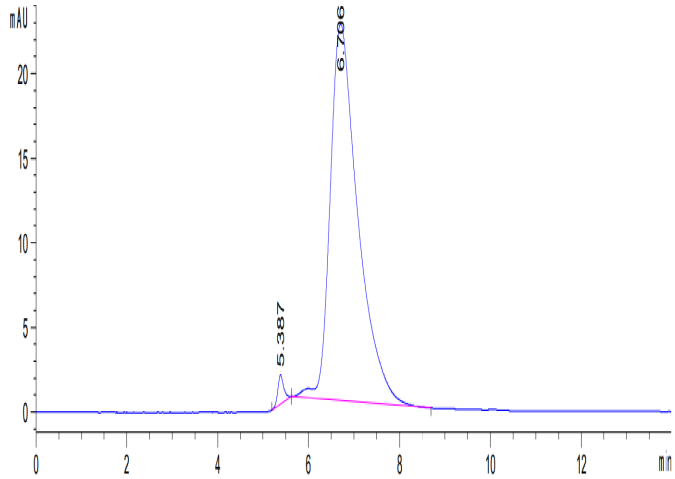
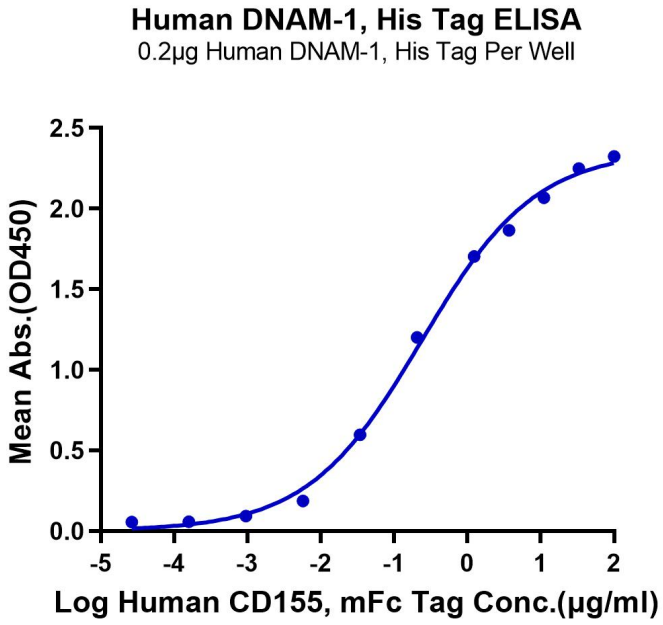
Assay Data



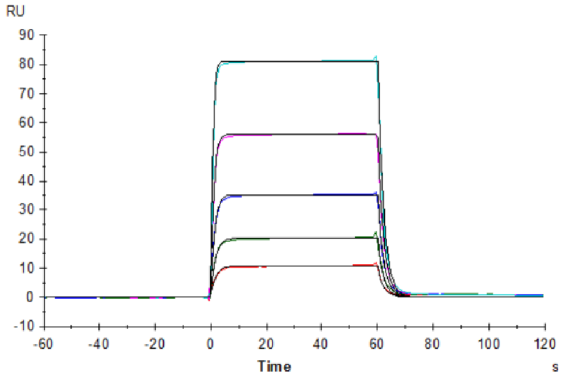
The purity of Human DNAM-1 is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human DNAM-1, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Human CD155, mFc Tag with the EC50 of 0.24μg/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).