

Human DNAM-1/CD226 Protein

Cat. No. DAM-HM201

Description

Source	Recombinant Human DNAM-1/CD226 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Glu19-Asn247.
Accession	Q15762
Molecular Weight	The protein has a predicted MW of 52.8 kDa. Due to glycosylation, the protein migrates to 70-100 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 HPLC

Formulation and Storage

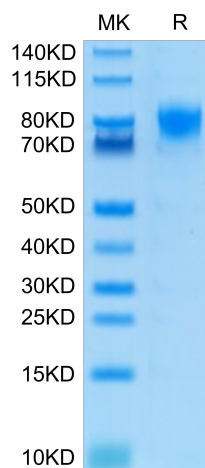
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized 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

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.

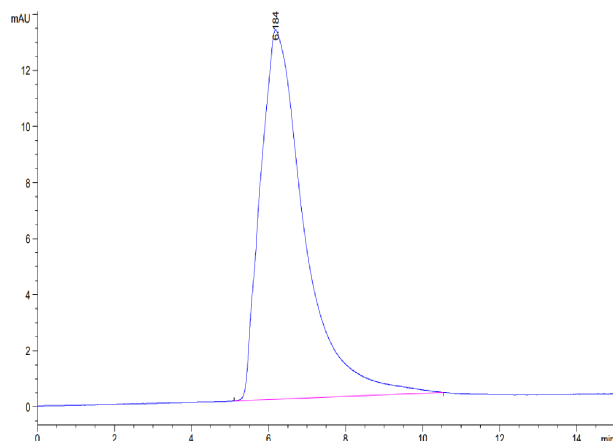
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



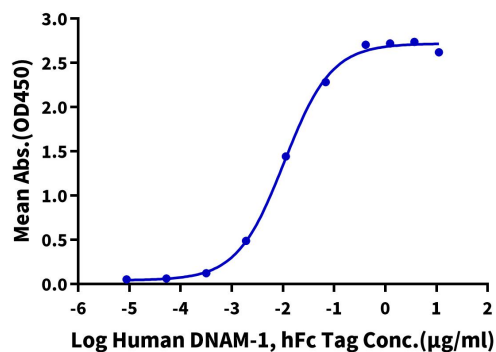
The purity of Human DNAM-1 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

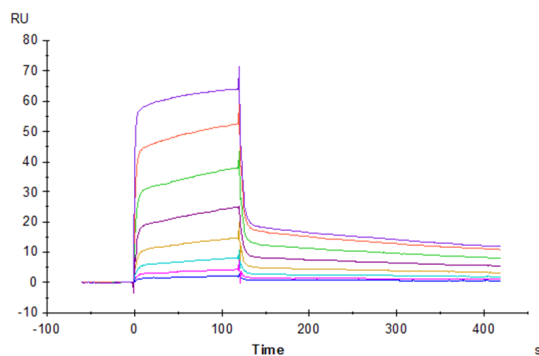
Human DNAM-1, hFc Tag ELISA

0.1µg Biotinylated Human CD155, His Tag Per Well



Immobilized Biotinylated Human CD155, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human DNAM-1, hFc Tag with the EC50 of 10.6ng/ml determined by ELISA (QC Test).

SPR Data



Human DNAM-1, hFc Tag captured on CM5 Chip via Protein A can bind Rhesus macaque CD155, His Tag with an affinity constant of 0.234 µM as determined in SPR assay (Biacore T200).