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Recombinant Human DNAM-1/CD226 Protein

Catalog No.: RP00335 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	10666	Q15762

Tags
C-hFc

Synonyms
CD226 molecule; CD226; DNAM1; PTA1; TLiSA1

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE> 95% by HPLC

Endotoxin
< 1 EU/μg of the protein by LAL method

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 vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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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.

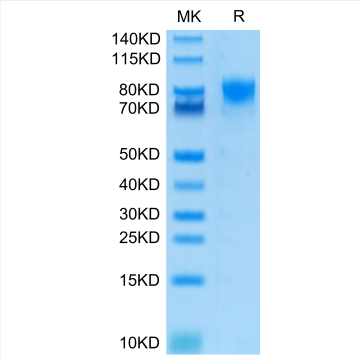
Basic Information

Description
Recombinant Human DNAM-1/CD226 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu19-Asn247) of Human DNAM-1/CD226 (Accession #Q15762) fused with a C-hFc tag at the C-terminus.

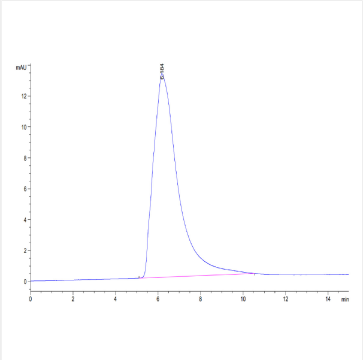
Bio-Activity

Storage
Store the lyophilized protein at -20°C to -80°C for 12 months.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

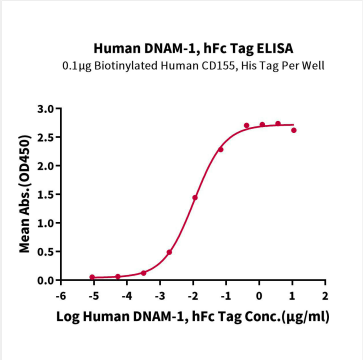
Validation Data



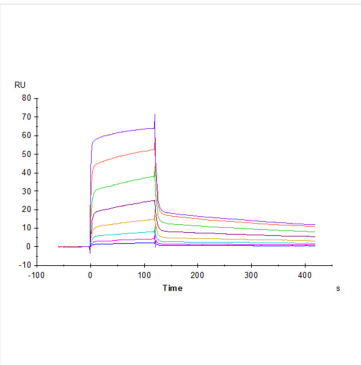
Human DNAM-1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



Immobilized Biotinylated Human CD155, His Tag at 1 μg/mL (100 μL/well) on the plate. Dose response curve for Human DNAM-1, hFc Tag with the EC_{50} of 10.6ng/mL determined by ELISA (QC Test).



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).