Recombinant Human DNAM-1/CD226 Protein

Catalog No.: RP00335

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Sequence Information

Species
Human

Gene ID
10666

Swiss Prot
Q15762

Tags
C-hFc

Synonyms
CD226 molecule; CD226; DNAM1; PTA1; TLiSA1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW
52.8 kDa

Observed MW
70-100 kDa

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.

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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

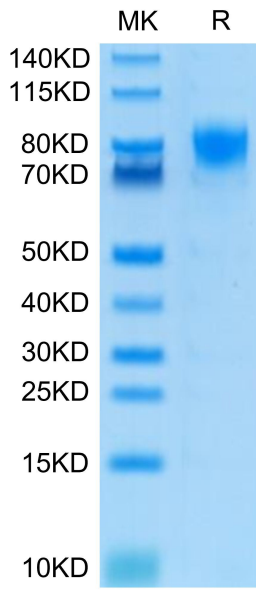
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

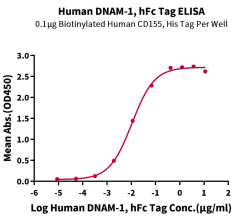
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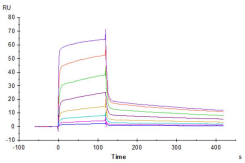
Validation Data



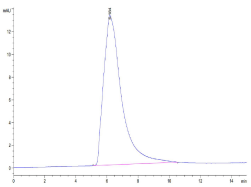
Recombinant Human DNAM-1/CD226 Protein was determined by Tris-Bis PAGE under reducing conditions.



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).



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