

RP00386

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Recombinant Human Nectin-1/PVRL1/CD111 Protein

Catalog No.: RP00386

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	5818	Q15223-1

Tags

C-His&Avi

Synonyms

CD111; ED4; HIgRPVRR; HVEC;
MGC142031; Nectin1; PRR; PRR1;
PRR1MGC16207; PVRL1; PVRR1; SK-12;
PVRL1; CLPED1; HIgR; OFC7; PVRR

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Nectins are a small family of Ca²⁺-independent immunoglobulin (Ig)-like cell adhesion molecules (CAMs) that organize intercellular junctions. They are highly homologous to the human receptor for poliovirus, and as such have been alternately named poliovirus receptor-related proteins. Nectin-1 promotes cell-cell contacts by forming homophilic or heterophilic trans-dimers. Heterophilic interactions have been detected between Nectin-1 and Nectin-3 and between Nectin-1 and Nectin-4. Has some neurite outgrowth-promoting activity.

Basic Information

Description

Recombinant Human Nectin-1/PVRL1/CD111 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln31-Thr334) of Human Nectin-1/PVRL1/CD111 (Accession #Q15223-1) fused with a C-His&Avi tag at the C-terminus.

Bio-Activity

Storage

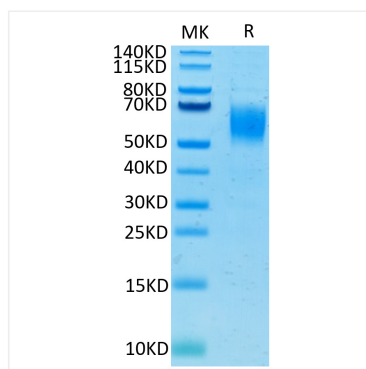
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

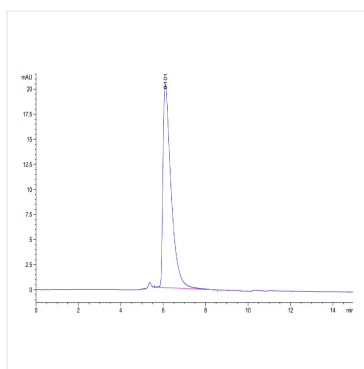


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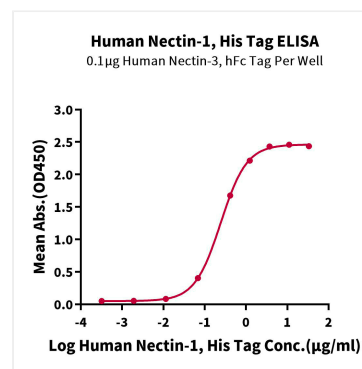
Validation Data



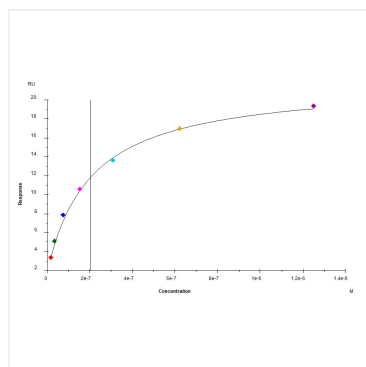
Human Nectin-1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



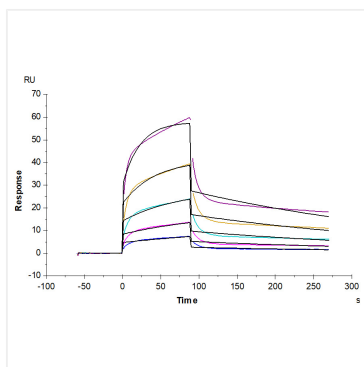
The purity of Human Nectin-1 is greater than 95% as determined by SEC-HPLC.



Immobilized Human Nectin-3, hFc Tag at 1 $\mu\text{g/mL}$ (100 μL /well) on the plate. Dose response curve for Human Nectin-1, His Tag with the EC_{50} of 0.24 $\mu\text{g/mL}$ determined by ELISA (QC Test).



Human Nectin-3, His Tag immobilized on CM5 Chip can bind Human Nectin-1, His Tag with an affinity constant of 0.204 μM as determined in SPR assay (Biacore T200).



Human Nectin-4, hFc Tag captured on CM5 Chip via Protein A can bind Human Nectin-1, His Tag with an affinity constant of 28.13 nM as determined in SPR assay (Biacore T200).