

Rev03
 Update: Aug,08,2025

DATASHEET

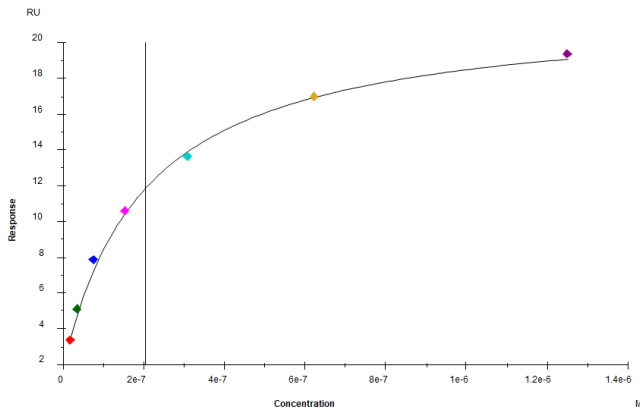
Nectin-1/PVRL1/CD111, His & Avi, Human

Cat. No.: Z05670

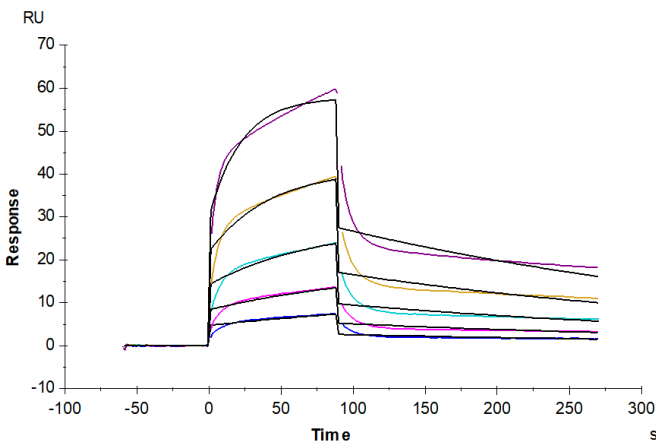
Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> Nectin-1/PVRL1/CD111 (Gln31-Thr334)_x000D_ Accession # Q15223-1 </div> <div style="background-color: #90c080; color: white; padding: 5px; text-align: center; margin: 0 5px;">His</div> <div style="background-color: #008000; color: white; padding: 5px; text-align: center; margin: 0 5px;">Avi</div> </div> <div style="display: flex; justify-content: space-between; width: 100%; font-size: small; margin-top: 5px;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human Nectin3, hFc Tag at 5µg/ml (100µl/well) on the plate can bind Nectin-1/PVRL1/CD111, His & Avi, Human. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	36.9 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 52-70 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
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 & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

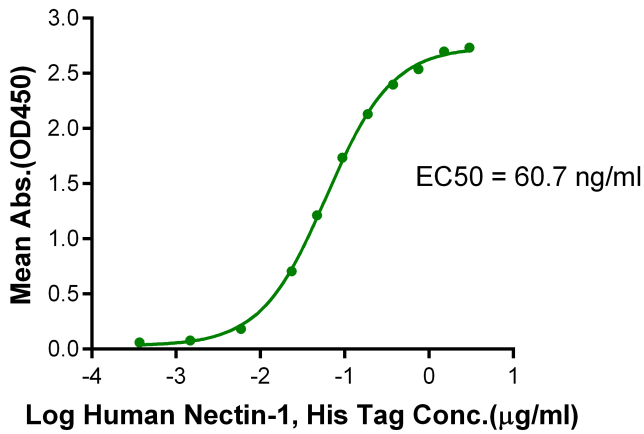
Examples



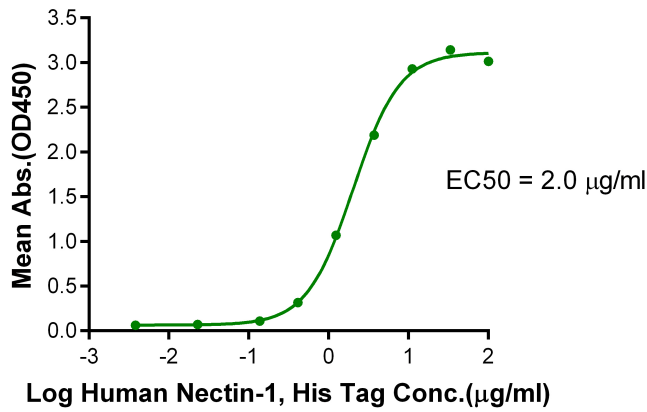
Human Nectin-3, His Tag immobilized on CM5 Chip can bind Nectin-1/PVRL1/CD111, His & Avi, Human, His Tag with an affinity constant of 0.204 μ M as determined in SPR assay (Biacore T200).



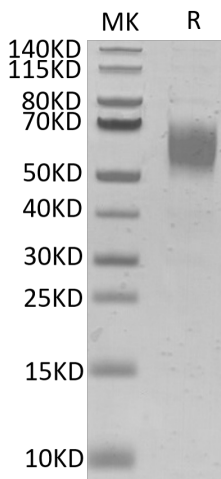
Human Nectin-4, hFc Tag captured on CM5 Chip via Protein A can bind Nectin-1/PVRL1/CD111, His & Avi, Human, His Tag with an affinity constant of 28.13 nM as determined in SPR assay (Biacore T200).



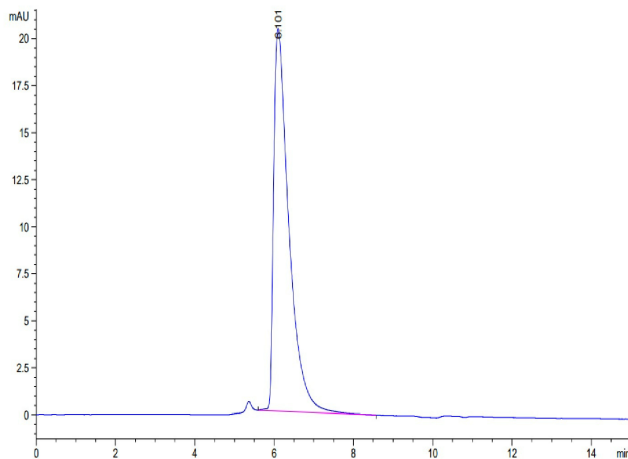
Immobilized Human Nectin-3, hFc Tag at 5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Nectin-1/PVRL1/CD111, His & Avi, Human, His Tag with the EC50 of 60.7ng/ml determined by ELISA.



Immobilized Human Nectin-4, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Nectin-1/PVRL1/CD111, His & Avi, Human, His Tag with the EC50 of 2.0µg/ml determined by ELISA.



Nectin-1/PVRL1/CD111, His & Avi, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



The purity of Nectin-1/PVRL1/CD111, His & Avi, Human is greater than 95% as determined by SEC-HPLC.

Background

Target 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.

Synonyms : CD111; ED4; HlgRPVRR; HVEC; MGC142031; Nectin1; PRR; PRR1; PRR1MGC16207; PVRL1; PVRR1; SK-12; PVRL1; CLPED1; HlgR; OFC7; PVRR

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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