

Human Nectin-2/CD112 Protein

Cat. No. NEC-HM402

Description

Source	Recombinant Human Nectin-2 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gln32-Leu360.
Accession	Q92692-2
Molecular Weight	The protein has a predicted MW of 38.4 kDa. Due to glycosylation, the protein migrates to 45-52 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

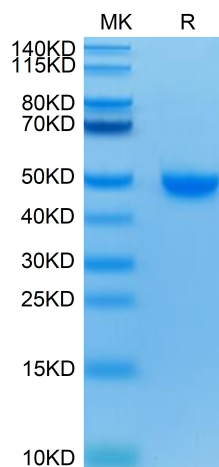
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Nectin-2 is an adhesion molecule that has been reported to play a role in tumor growth, metastasis and tumor angiogenesis. Nectin-2 expression in ovarian cancer may support tumor cell adhesion, leading to growth and lymph node metastasis. Effect of VEGF on Nectin-2 expression as well as permeability was investigated in HUVEC.

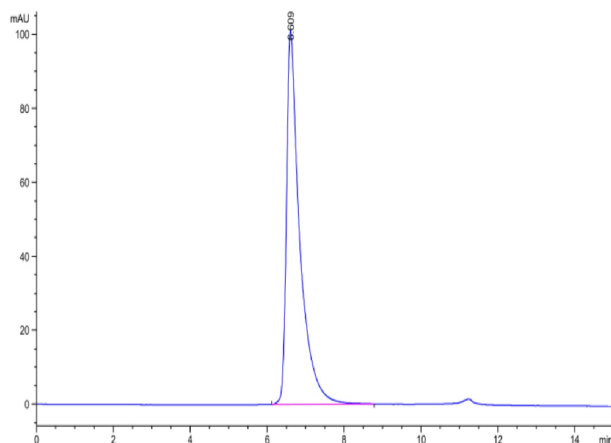
Assay Data

Bis-Tris PAGE



Human Nectin-2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



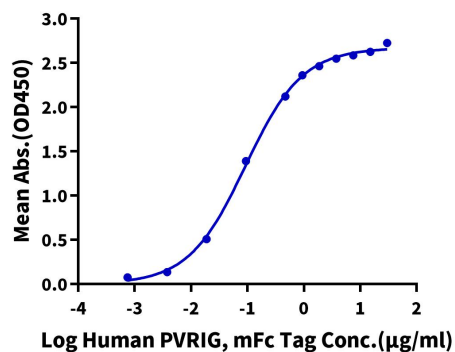
The purity of Human Nectin-2 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

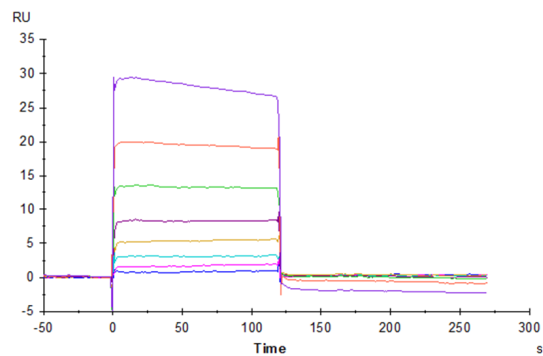
Human Nectin-2, His Tag ELISA

0.5µg Human Nectin-2, His Tag Per Well



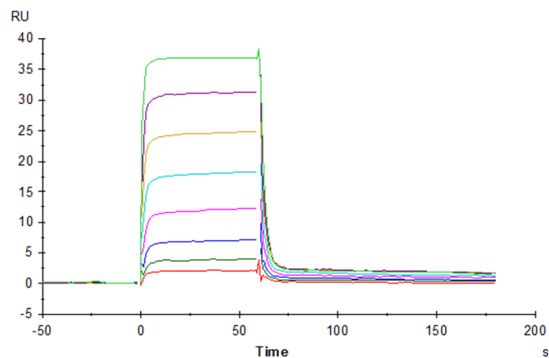
Immobilized Human Nectin-2, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human PVRIG, mFc Tag with the EC50 of 92.1ng/ml determined by ELISA (QC Test).

SPR Data



Human TIGIT, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human Nectin-2, His-Avi Tag with an affinity constant of 1.84 µM as determined in SPR assay (Biacore T200).

SPR Data



Human PVRIG, mFc Tag captured on CM5 Chip via anti-mouse antibody can bind Human Nectin-2, His Tag with an affinity constant of 0.349 µM as determined in SPR assay (Biacore T200).