

# Human Nectin-2/CD112 Protein

Cat. No. NEC-HM202

## Description

<b>Source</b>	Recombinant Human Nectin-2/CD112 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Gln32-Leu360.
<b>Accession</b>	Q92692-2
<b>Molecular Weight</b>	The protein has a predicted MW of 62.3 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

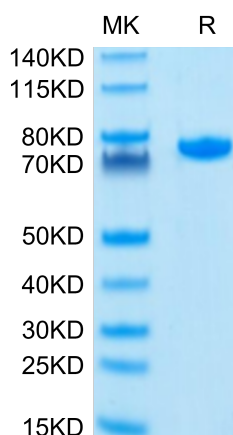
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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.

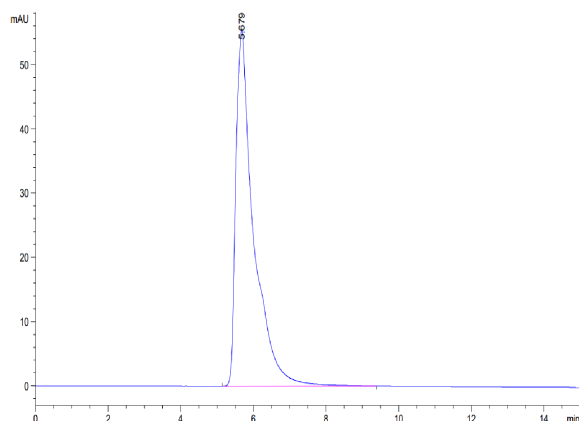
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



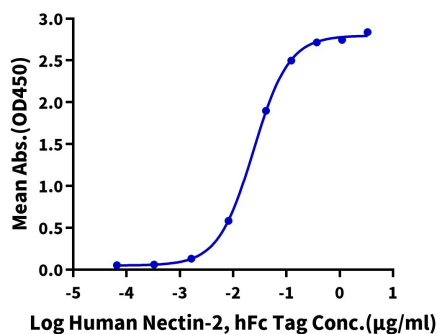
The purity of Human Nectin-2 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

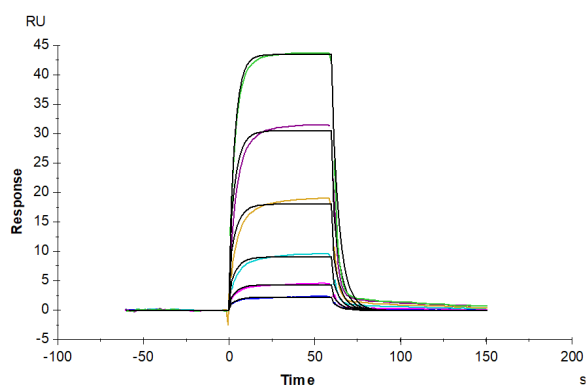
Human Nectin-2, hFc Tag ELISA

0.1µg Human PVRIG, mFc Tag Per Well



Immobilized Human PVRIG, mFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human Nectin-2, hFc Tag with the EC50 of 24.1ng/ml determined by ELISA.

SPR Data



Human Nectin-2, hFc Tag captured on CM5 Chip via Protein A can bind Human PVRIG, His Tag with an affinity constant of 6.27 µM as determined in SPR assay (Biacore T200).