

## Nectin-2 Protein, Human, Recombinant (His & Avi)

### General Information

Synonyms:	PRR2;CD112;Nectin2;MPH;PVRR2;PVRL2;HVEB
Protein Construction:	Gln32-Leu360
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q92692-2
Molecular Weight:	38.4 kDa (predicted). Due to glycosylation, the protein migrates to 45-52 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	<ol style="list-style-type: none"><li>1. Immobilized Human Nectin-2, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human PVRIG, mFc Tag with the EC50 of 0.15µg/ml determined by ELISA (QC Test).</li><li>2. 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.</li></ol>
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

Reference

Bekes I, et al. Nectin-2 in ovarian cancer: How is it expressed and what might be its functional role? *Cancer Sci.* 2019 Jun;110(6):1872-1882. doi: 10.1111/cas.13992. Epub 2019 May 2. PMID: 30843637; PMCID: PMC6549928.

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