**Product Name: Human Nectin-4 cis dimer, His-Avi Tag**

**Product Code: CSP-24016-03**

**FOR RESEARCH USE ONLY (RUO)**

**Protein Name:** Nectin-4, Protein Dimer

**Alternate Name(s):** Poliovirus receptor-related-4PVRL4, LNIR, PRR4, EDSS1

**Expression Host**
HEK293T

**Amino Acid Range**
G32-S349

**Protein Construct**
Nectin-4 protein cis-dimer (amino acids Gly32-Ser349) contains Nectin-4 extracellular 3 Ig-like domains (UniProt# Q96NY8) with a proprietary homodimer motif and a tandem His-Avi tag at the C-terminus. Expressed in HEK293T cell line.

**SDS-Page Molecular Weight**
92 kDa. The migration range of the dimer protein with glycosylation under non-reducing condition is 120-190 kDa on SDS PAGE.

**Purity**
Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition

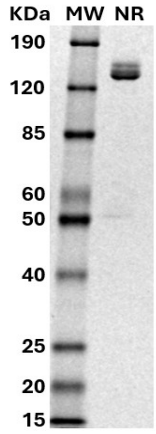
**Shipping Conditions**
Product is shipped at ambient temperature.

**Formulation**
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4 with 10% trehalose as a protectant

**Stability & Storage**
On receipt, store at -20 C or lower for long term storage.
This product is stable at:
-20 to -70 C for 12 months from date of receipt in lyophilized state.
-70 C for 3 months after reconstitution under sterile conditions.
Avoid repeated freeze-thaw cycles

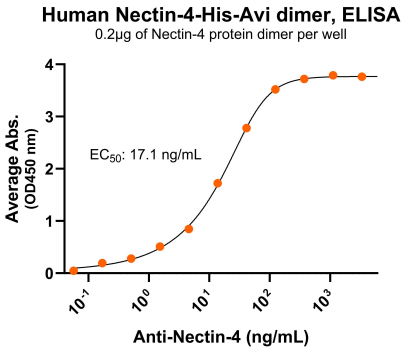
**Reconstitution of lyophilized product**
For best performance, we strongly recommend you reconstitute the lyophilized product with deionized water to a stock solution of 500 μg/mL.
Solubilize for 20 minutes at room temperature with occasional gentle mixing. Avoid shaking or vortexing.
For 25μg product size:
Reconstitute with 50 μL sterile deionized water.
For 100μg product size:
Reconstitute with 200 μL sterile deionized water.

## SDS-PAGE




MW: Molecular Weight marker reduced condition
NR: Nectin-4 dimer under non-reducing condition
The migration range of the dimer protein with glycosylation under non-reducing condition is 120-190 kDa on SDS PAGE.

## Antibody Binding




Immobilized human Nectin-4 dimer protein, His-Avi tag (Cat. No. CSP-24016-03) at 2 μg/mL (100 μL/well) can bind anti-human Nectin-4 monoclonal antibody with half maximal effective concentration (EC50) range of 8.6-34.2 ng/mL (QC tested).

### Background

Nectin-4, also known as PVRL-4, is a type 1 integral membrane glycoprotein that can form a homo-cis dimer on the cell membrane. It consists of an extracellular region with three immunoglobulin-like (Ig-like) domains, organized as a variable-like (Ig-V) domain followed by two constant-like (Ig-C) domains (V-C-C), one transmembrane region, and a cytoplasmic domain. Nectin-4 promotes tumor growth and is overexpressed in numerous tumor types such as breast, lung, ovarian, urothelial, colorectal, and pancreatic cancer. Nectin-4 is a ligand of TIGIT (T-cell immunoreceptor with Ig and ITIM domains). Nectin-4 is an emerging target of cancer therapeutics. A recombinant protein mimicking the Nectin-4 native dimer conformation can be crucial for therapeutic antibody and vaccine discovery.