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

Product Code: CSP-24016-01

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 homodimer motif and a His tag at the C-terminus. Expressed in HEK293T cell line.

SDS-Page Molecular Weight

92 kDa. Migration range of the dimer under non-reducing condition is 90-130 kDa on SDS-PAGE.

Purity

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

Shipping Conditions

Frozen Dry Ice

Formulation

0.22µm filtered PBS, pH 7.4

Stability & Storage

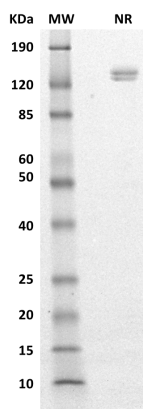
On receipt, store at -70 C or lower for long term storage.

This product is stable at:

-70 C for 6 months from date of receipt.

Avoid repeated freeze-thaw cycles

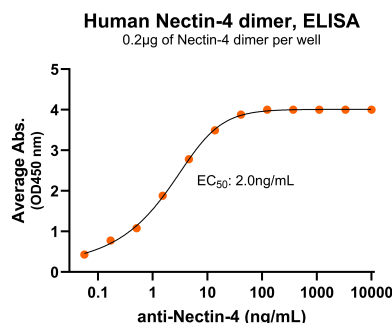
SDS-PAGE



MW: Molecular Weight marker reduced condition
NR: Nectin-4 dimer under non-reducing condition

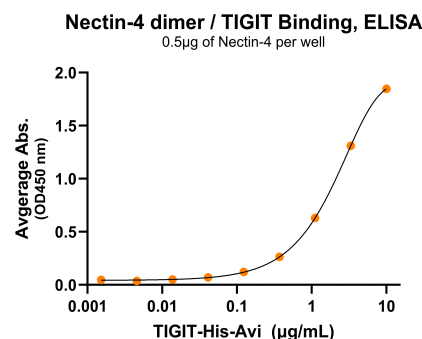
Migration range of the dimer under non-reducing condition is 90-130 kDa on SDS-PAGE.

Antibody Binding



Immobilized human Nectin-4 dimer protein (Cat. No. CSP-24016-01) at 2 µg/mL (100 µL/well) can bind anti-human Nectin-4 monoclonal antibody with half maximal effective concentration (EC₅₀) range of 1.1 - 4.3 ng/mL (QC tested).

Ligand Binding



Immobilized human Nectin-4 dimer protein (Cat. No. CSP-24016-01) at 5 µg/mL (100 µL/well) can bind TIGIT-His-Avi dimer protein (Cat. No. CSP-24028-03), (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.