

## Product datasheet for **TP721450**

### CLDN4 Human Recombinant Protein, Synthetic Nanodisc

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human CLDN4 full length protein-Synthetic Nanodisc, 10µg
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	C-terminal Flag tagged overexpression cDNA clone
Tag:	C-term Flag Tag
Predicted MW:	The human full length CLDN4 protein has a MW of 22.1 kDa
Concentration:	Please refer to the Certificate of Analysis (COA) for the lot-specific concentration before lyophilization.
Purity:	The purity of the protein is determined by SDS-PAGE and Coomassie blue staining.
Buffer:	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Do not use solvents with pH lower than 6.5 in subsequent experiments.
Reconstitution Method:	1. Before opening the tube cap, centrifuge the sample tube at 5000g for 3-5min at room temperature to ensure the lyophilized sample settles down at the bottom of the tube. 2. Calculate the volume for reconstitution (in µL) using the formula: [Quantity (mg)/Concentration (mg/mL)]x1000 3. Dissolve the lyophilized protein sample in sterile water based on the calculated volume (µL) 4. After adding sterile water, cover the lid and mix by gently tapping the tube 5-10 times. Note: Do not vortex or vigorously pipette the sample.
Preparation:	Affinity purification
Storage:	Store at -20°C to -80°C for 12 months in lyophilized form.
Stability:	After reconstitution, if not intended for use within a month, aliquot and store at -80°C . Avoid repeated freezing and thawing.
Locus ID:	1364
UniProt ID:	<a href="#">O14493</a>
Synonyms:	CPE-R; CPER; CPETR; CPETR1; hCPE-R; WBSCR8



[View online »](#)

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction

**Product images:**



Figure 2. Human CLDN4-Nanodisc, Flag Tag on SDS-PAGE

**ELISA assay to evaluate CLDN4-Nanodisc**  
0.2µg Human CLDN4-Nanodisc per well

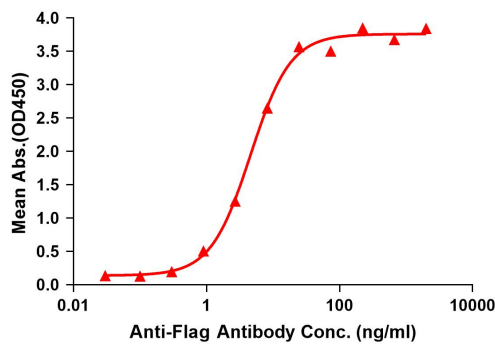


Figure 1. Elisa plates were pre-coated with Flag Tag CLDN4-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CLDN4-Nanodisc is 4.607ng/ml.