## PRODUCT INFORMATION

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|---|---|
| **Tag** | C-Flag Tag |
| **Target** | CLDN2 |
| **Synonyms** | OAZON |
| **Description** | Human CLDN2 full length protein-synthetic nanodisc |
| **Delivery** | In Stock |
| **Uniprot ID** | P57739 |
| **Expression Host** | HEK293 |
| **Protein Families** | Transmembrane |
| **Protein Pathways** | Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction |
| **Molecular Weight** | The human full length CLDN2 protein has a MW of 24.5 kDa |
| **Background** | This protein belongs to the claudin protein family whose members have been identified as major integral membrane proteins localized exclusively at tight junctions. Claudins are expressed in an organ-specific manner and regulate tissue-specific physiologic properties of tight junctions. This protein is expressed in the intestine. Alternatively spliced transcript variants with different 5' untranslated region have been found for this gene. |
| **Formulation & Reconstitution** | 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. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments. |
| **Storage&Shipping** | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C(Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |
| **Usage** | Research use only |
| **Conjugate** | Unconjugated |



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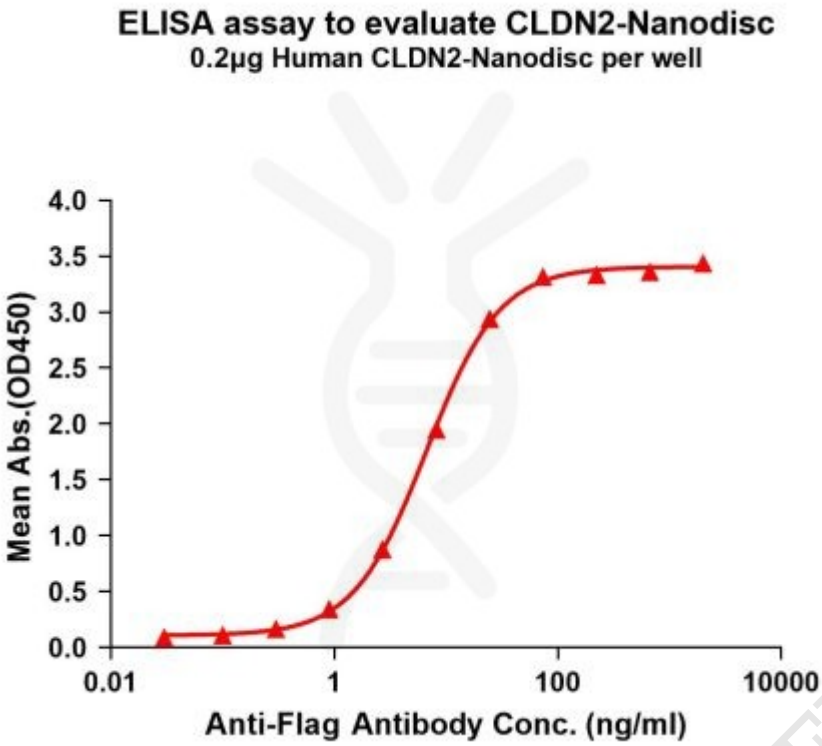


Figure1. Elisa plates were pre-coated with Flag Tag CLDN2-Nanodisc (0.2μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CLDN2-Nanodisc is 6.681ng/ml.

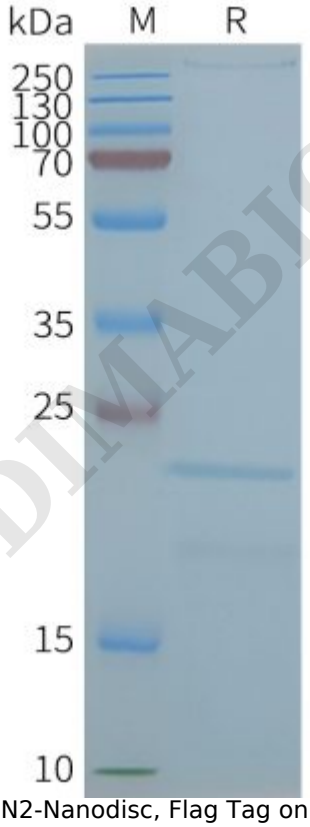


Figure2. Human CLDN2-Nanodisc, Flag Tag on SDS-PAGE



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