## PRODUCT INFORMATION

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| **Tag** | C-Flag Tag |
| **Expression Host** | HEK293 |
| **Target** | PTPRZ1 |
| **Synonyms** | HPTPZ; HPTPzeta; phosphacan; PTP-ZETA; PTP18; PTPRZ; PTPZ; R-PTP-zeta-2; RPTPB; RPTPbeta |
| **Description** | Human PTPRZ1 full length protein-synthetic nanodisc |
| **Uniprot ID** | P23471 |
| **Protein Families** | Druggable Genome, Phosphatase, Transmembrane |
| **Protein Pathways** | Epithelial cell signaling in Helicobacter pylori infection |
| **Molecular Weight** | The human full length PTPRZ1 protein has a MW of 254.6 kDa |
| **Delivery** | In Stock |
| **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. |
| **Sterility** | Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 μm) prior to use. |
| **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. |
| **Background** | Protein tyrosine phosphatase that negatively regulates oligodendrocyte precursor proliferation in the embryonic spinal cord. Required for normal differentiation of the precursor cells into mature, fully myelinating oligodendrocytes. May play a role in protecting oligondendrocytes against apoptosis. May play a role in the establishment of contextual memory, probably via the dephosphorylation of proteins that are part of important signaling cascades. |
| **Usage** | Research use only |
| **Conjugate** | Unconjugated |

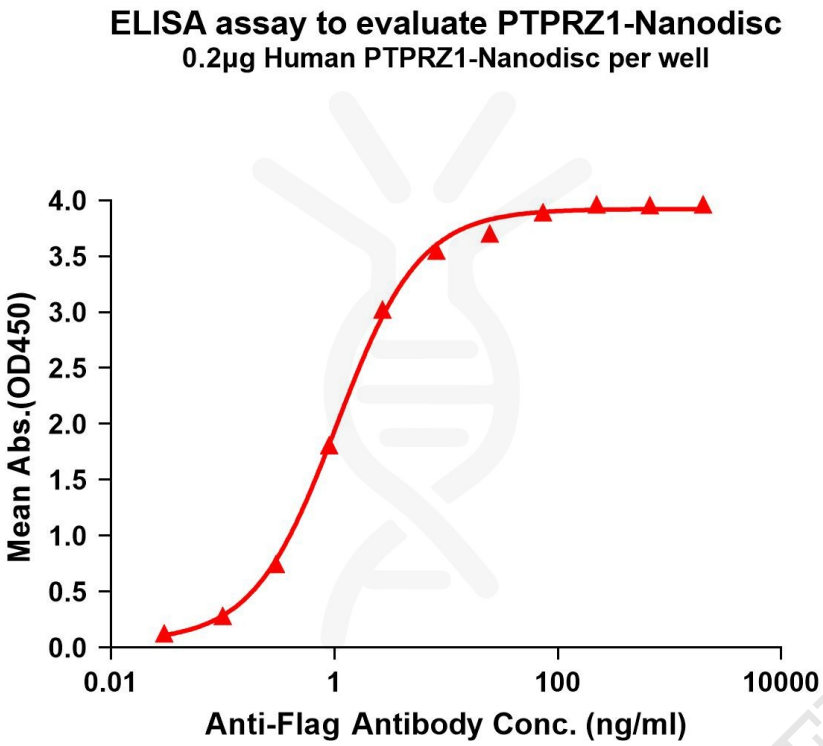


Figure 1. Elisa plates were pre-coated with Flag Tag PTPRZ1-Nanodisc (0.2μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with PTPRZ1-Nanodisc is 1.047ng/ml.

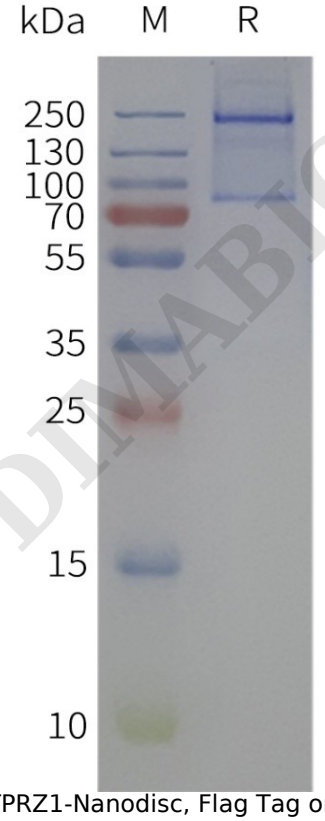


Figure 2. Human PTPRZ1-Nanodisc, Flag Tag on SDS-PAGE