

PRODUCT INFORMATION

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| Tag | C-Flag&Strep Tag |
| Expression Host | HEK293 |
| Target | GPR4 |
| Synonyms | GPR6C.I |
| Description | Human GPR4-Strep full length protein-synthetic nanodisc |
| Uniprot ID | P46093 |
| Protein Families | Druggable Genome, GPCR, Transmembrane |
| Protein Pathways | N/A |
| Molecular Weight | The human full length GPR4-Strep protein has a MW of 41.0 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 | Proton-sensing receptor coupled to several G-proteins, including G(s), G(13) and G(q)/G(11) proteins, leading to cAMP production. |
| Usage | Research use only |
| Conjugate | Unconjugated |



ELISA assay to evaluate GPR4-Strep-Nanodisc 0.2 μ g Human GPR4-Strep-Nanodisc per well

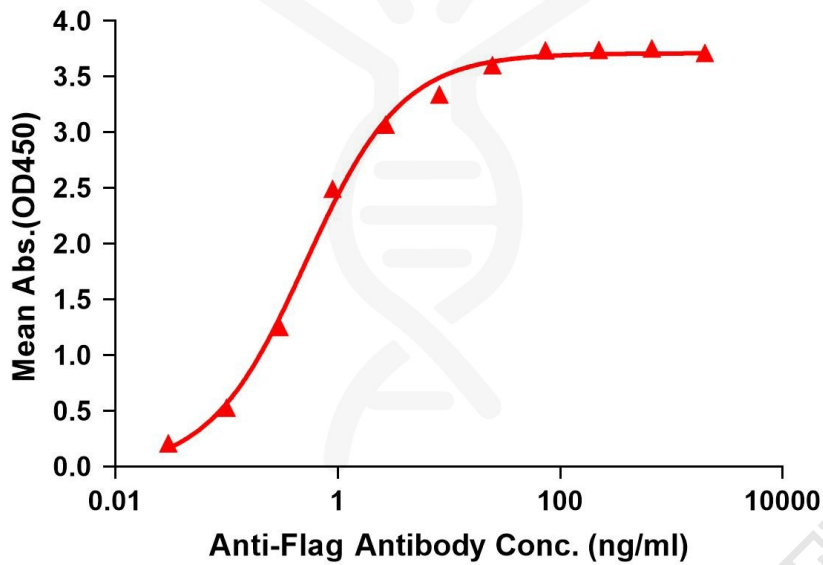


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag GPR4-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC₅₀ for anti-Flag monoclonal antibody binding with GPR4-Strep-nanodisc is 0.518ng/ml.

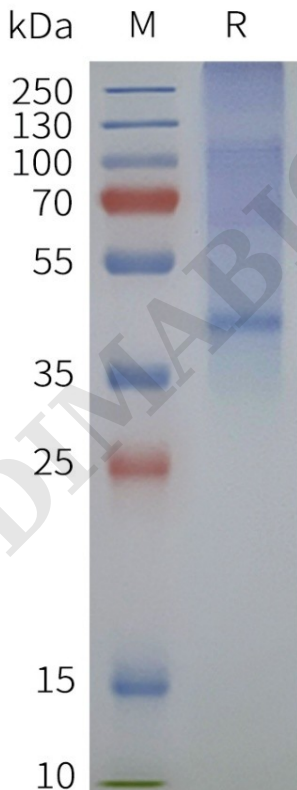


Figure 2. Human GPR4-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

