

PRODUCT INFORMATION

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tag                          | C-Flag Tag                                                                                                                                                                                                                                                                                                                                                                                                         |
| Target                       | PTGDR2                                                                                                                                                                                                                                                                                                                                                                                                             |
| Synonyms                     | CD294; CRTH2; DL1R; DP2; GPR44                                                                                                                                                                                                                                                                                                                                                                                     |
| Description                  | Human PTGDR2 full length protein-synthetic nanodisc                                                                                                                                                                                                                                                                                                                                                                |
| Delivery                     | In Stock                                                                                                                                                                                                                                                                                                                                                                                                           |
| Uniprot ID                   | Q9Y5Y4                                                                                                                                                                                                                                                                                                                                                                                                             |
| Expression Host              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                             |
| Protein Families             | Druggable Genome, GPCR, Transmembrane                                                                                                                                                                                                                                                                                                                                                                              |
| Protein Pathways             | N/A                                                                                                                                                                                                                                                                                                                                                                                                                |
| Molecular Weight             | The human full length PTGDR2 protein has a MW of 43.3 kDa                                                                                                                                                                                                                                                                                                                                                          |
| 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 of reconstitution.                                                                                                                                                                   |
| 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                   | The protein is a G-protein-coupled receptor that is preferentially expressed in CD4+ effector T helper 2 (Th2) cells. This protein is a prostaglandin D2 receptor that mediates the pro-inflammatory chemotaxis of eosinophils, basophils, and Th2 lymphocytes generated during allergic inflammation. Single nucleotide polymorphisms in the 3' UTR of this gene have been associated with asthma susceptibility. |
| Usage                        | Research use only                                                                                                                                                                                                                                                                                                                                                                                                  |
| Conjugate                    | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                       |



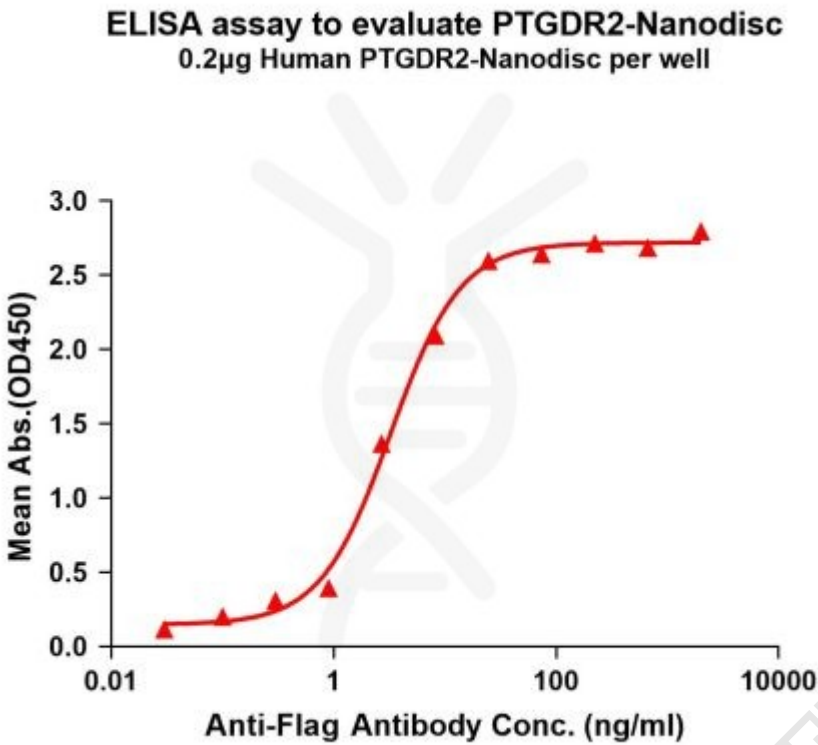


Figure1. Elisa plates were pre-coated with Flag Tag PTGDR2-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with PTGDR2-Nanodisc is 3.249ng/ml.

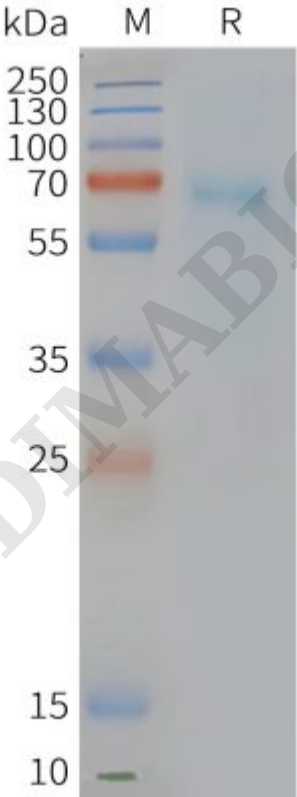


Figure2. Human PTGDR2-Nanodisc, Flag Tag on SDS-PAGE

