

## Product datasheet for **TP721403**

### GPR75 Human Recombinant Protein, Synthetic Nanodisc

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human GPR75 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 GPR75 protein has a MW of 59.4 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:	10936
UniProt ID:	<a href="#">O95800</a>
Synonyms:	GPRchr2; WI31133



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

**Protein Pathways:** Autoimmune thyroid disease, Neuroactive ligand-receptor interaction

**Product images:**

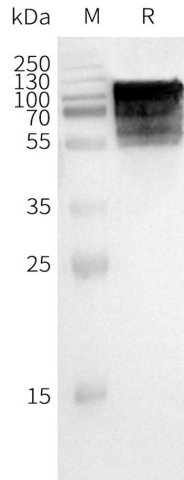


Figure 2. WB analysis of Human GPR75-Nanodisc with anti-Flag monoclonal antibody at 1/5000 dilution, followed by Goat Anti-Rabbit IgG HRP at 1/5000 dilution

**ELISA assay to evaluate GPR75-Nanodisc**  
0.2µg Human GPR75-Nanodisc per well

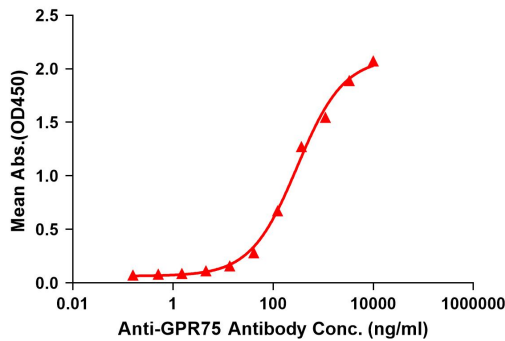


Figure 1. Elisa plates were pre-coated with Flag Tag GPR75-Nanodisc (0.2µg/per well). Serial diluted anti-GPR75 monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-GPR75 monoclonal antibody binding with GPR75-Nanodisc is 303.6ng/ml.