## PRODUCT INFORMATION

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|---|---|
| **Tag** | C-Flag Tag |
| **Target** | GPR84 |
| **Synonyms** | EX33; GPCR4 |
| **Description** | Human GPR84 full length protein-synthetic nanodisc |
| **Delivery** | In Stock |
| **Uniprot ID** | Q9NQS5 |
| **Expression Host** | HEK293 |
| **Protein Families** | Druggable Genome, GPCR, Transmembrane |
| **Protein Pathways** | N/A |
| **Molecular Weight** | The human full length GPR84 protein has a MW of 43.7 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. 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. |
| **Background** | Receptor for medium-chain free fatty acid (FFA) with carbon chain lengths of C9 to C14. Capric acid (C10:0), undecanoic acid (C11:0) and lauric acid (C12:0) are the most potent agonists. Not activated by short-chain and long-chain saturated and unsaturated FFAs. Activation by medium-chain free fatty acid is coupled to a pertussis toxin sensitive G(i/o) protein pathway. May have important roles in processes from fatty acid metabolism to regulation of the immune system. |
| **Usage** | Research use only |
| **Conjugate** | Unconjugated |



Address: Wuhan institute of Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China
Telephone: +1 2409940618(USA)
/+86-18062749453(China)
/+86-400-006-0995(China)

Email: info@dimabio.com
Website: www.dimabio.com

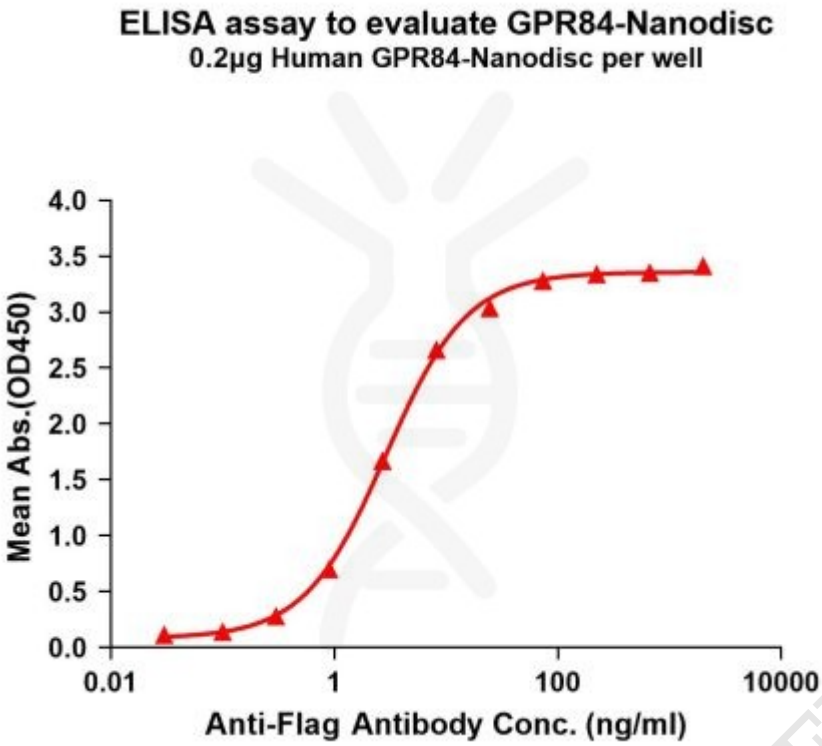


Figure1. Elisa plates were pre-coated with Flag Tag GPR84-Nanodisc (0.2μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with GPR84-Nanodisc is 2.893ng/ml.

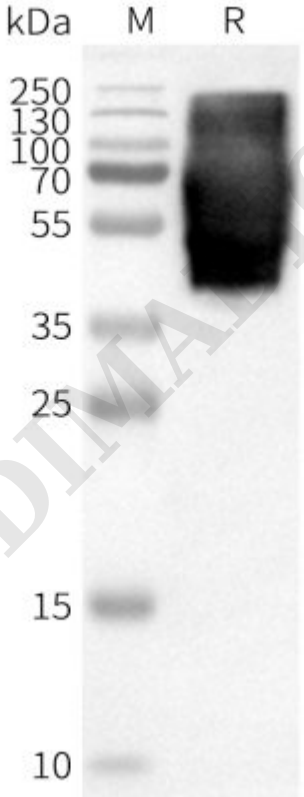


Figure2. WB analysis of Human GPR84-Nanodisc with anti-Flag monoclonal antibody at 1/5000 dilution, followed by Goat Anti-Rabbit IgG HRP at 1/5000 dilution



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