

**PRODUCT INFORMATION**

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| <b>Target</b>                           | FFAR1  |
| <b>Synonyms</b>                         | FFA1R; GPCR40; GPR40   |
| <b>Description</b>                      | Human FFAR1 full length protein-synthetic nanodisc   |
| <b>Delivery</b>                         | In Stock   |
| <b>Uniprot ID</b>                       | O14842   |
| <b>Expression Host</b>                  | HEK293   |
| <b>Protein Families</b>                 | Druggable Genome, GPCR, Transmembrane  |
| <b>Protein Pathways</b>                 | N/A  |
| <b>Molecular Weight</b>                 | The human full length FFAR1 protein has a MW of 31.5 kDa   |
| <b>Formulation &amp; Reconstitution</b> | 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 pH lower than 6.5 in subsequent experiments.                           |
| <b>Background</b>                       | A member of the GP40 family of G protein-coupled receptors that are clustered together on chromosome 19. The encoded protein is a receptor for medium and long chain free fatty acids and may be involved in the metabolic regulation of insulin secretion. Polymorphisms in this gene may be associated with type 2 diabetes. |
| <b>Storage &amp; Shipping</b>           | 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.  |
| <b>Usage</b>                            | Research use only  |



### ELISA assay to evaluate FFAR1-Nanodisc 0.2 $\mu$ g Human FFAR1-Nanodisc per well

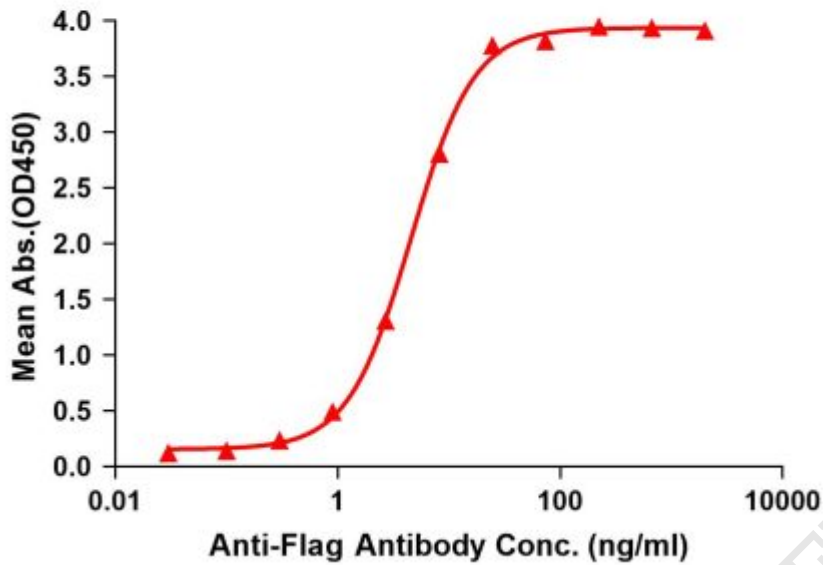


Figure1. Elisa plates were pre-coated with Flag Tag FFAR1-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with FFAR1-Nanodisc is 4.566ng/ml.



Figure2. Human FFAR1-Nanodisc, Flag Tag on SDS-PAGE

