

## **PRODUCT INFORMATION**

C-Flag&Strep Tag Tag

**Target** FFAR3

**Synonyms** FFA3R; GPR41; GPR42

Human FFAR3-Strep full length protein-synthetic **Description** 

nanodisc

**Delivery** In Stock **Uniprot ID** 014843 **Expression Host HEK293** 

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

**Protein Pathways** N/A

**Background** 

The human full length FFAR3-Strep protein has a **Molecular Weight** 

MW of 38.6 kDa

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before Formulation & Reconstitution lyophilization. Please see Certificate of Analysis

for specific instructions of reconstitution. 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). Storage & Shipping Lyophilized proteins are shipped at ambient

temperature.

G protein-coupled receptor that is activated by a major product of dietary fiber digestion, the short chain fatty acids (SCFAs), and that plays a role in the regulation of whole-body energy homeostasis and in intestinal immunity. In omnivorous mammals, the short chain fatty acids acetate, propionate and buttyrate are produced primarily. propionate and butyrate are produced primarily

by the gut microbiome that metabolizes dietary fibers. SCFAs serve as a source of energy but also act as signaling molecules. That G protein-coupled to the pertussis toxin-sensitive, G(i/o)-alpha family of G proteins. Its activation results in the formation of inositol 1,4,5-trisphosphate, the mobilization of intracellular calcium, the phosphorylation of the MAPK3/ERK1 and MAPK1/ERK2 kinases and the inhibition of intracellular cAMP accumulation.

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Usage Research use only Conjugate Unconjugated





## ELISA assay to evaluate FFAR3-Strep-Nanodisc 0.2µg Human FFAR3-Strep-Nanodisc per well

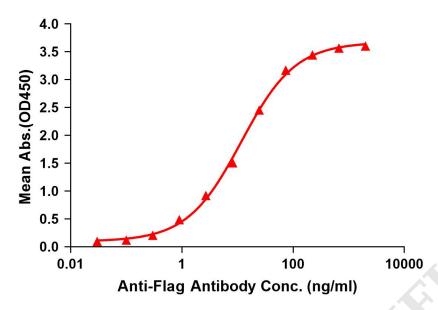


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag FFAR3-Strep-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with FFAR3-Strep-nanodisc is 11.71ng/ml.

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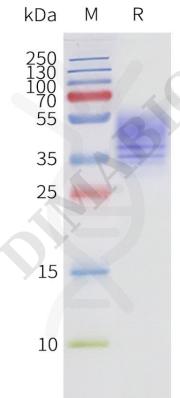


Figure 2. Human FFAR3-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE