

PRODUCT INFORMATION

C-Flag&Strep Tag Tag

Target FFAR2

Synonyms FFA2R; GPR43

Human FFAR2-Strep full length protein-synthetic Description

nanodisc

Delivery In Stock **Uniprot ID** 015552 **Expression Host HEK293**

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

Protein Pathways N/A

Formulation &

Storage & Shipping

Background

Usage

The human full length FFAR2-Strep protein has a **Molecular Weight**

MW of 37.1 kDa

mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Reconstitution 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. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

Lyophilized from nanodisc solubilization buffer (20

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).

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 the regulation of whole-body energy homeostasis and in intestinal immunity. In omnivorous mammals, the short chain fatty acids acetate, 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 receptor is probably coupled to the pertussis toxin-sensitive, G(i/o)-alpha family of G proteins but also to the Gq family. Its activation results in the formation of inositol 1.4.5-

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trisphosphate, the mobilization of intracellular calcium, the phosphorylation of the MAPK3/ERK1 and MAPK1/ERK2 kinases and the inhibition of intracellular cAMP accumulation. May play a role in glucosphamostopic by regulating the in glucose homeostasis by regulating the secretion of GLP-1, in response to short-chain fatty acids accumulating in the intestine.

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





ELISA assay to evaluate FFAR2-Strep-Nanodisc 0.2µg Human FFAR2-Strep-Nanodisc per well

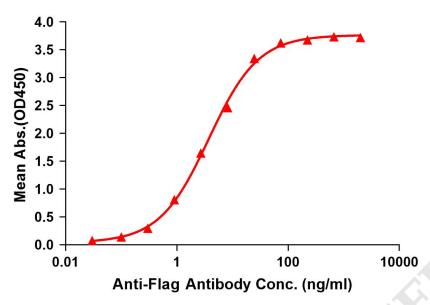


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag FFAR2-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with FFAR2-Strep-nanodisc is 3.755ng/ml.

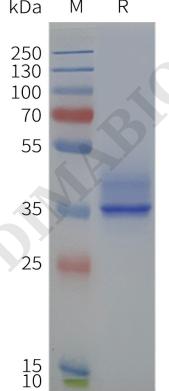


Figure 2. Human FFAR2-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

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

