Cat. No. FLP100031A



PRODUCT INFORMATION

Warning: Undefined variable ShasAttributeValueDescription in C:\www.root\mirror.dimablo.com\wp-content\plugins\woocommerce-print-products\public\class-woocommerce-print-products-public.php on line 2806 C-Flag Tag

GPRchr2; WI31133

Human β2AR-GPR75-BRIL full length protein-synthetic nanodisc

Delivery In Stock Uniprot ID 095800 HEK293 **Expression Host**

Protein Families Druggable Genome, GPCR, Transmembrane

Protein Pathways

Molecular Weigh The human full length β2AR-GPR75-BRIL protein has a MW of 59.4 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 lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution. Formulation & Reconstitution

Storage & Shipping

Background

lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.

Store at -20°C to -80°C for 12 cmonths 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.

GR75 is a member of the G protein-coupled receptor family and is a novel tranget for the clinical treatment of obesity. Human GR75 haploinsufficiency exhibits a striking phenotype of low body fat, and GR75 knockout mice are hypophagic and thin, improving glucose tolerance and insulin sensitivity. To enhance the expression level of GR75, twenty-four amino acids from the £284 Receptor (MGGPNGSAFLLARMSHAPDHDV) were used to replace the original residues1-31 in a modified version of the GR75 receptor. Furthermore, the BRIL sequence was used to replace the original residues1-32 in a modified version of the GR75 receptor. Furthermore, the BRIL sequence was used to replace the original iCL3 loop (237-306) to enhance receptor stability. BRIL is thermostabilized apocytochrome 552 with mutations MTW, H.102, R108L, P08 ID 1MGT.

Usage Research use only Unconjugated

ELISA assay to evaluate β2AR-GPR75-BRIL-Nanodisc 0.2μg Human β2AR-GPR75-BRIL-Nanodisc per well

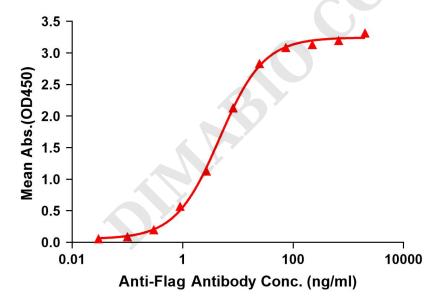


Figure 1. Elisa plates were pre-coated with Flag Tag β 2AR-GPR75-BRIL-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with β 2AR-GPR75-BRIL-Nanodisc is 4.678ng/ml.

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





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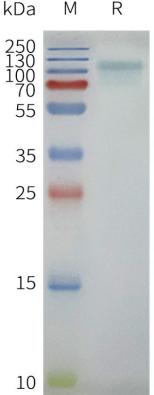
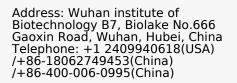


Figure 2. Human β2AR-GPR75-BRIL-Nanodisc, Flag Tag on SDS-PAGE



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