

PRODUCT INFORMATION

Warning . Undefined variable \$hasAttributeValueDescription in Calwawroottmirror.dimabio.com/wp-content\plugins/woocommerce-print-products/public/class-woocommerce-print-products-public.php on line 2806 CFlag Tag

Tag

G-protein coupled receptor 20

Human GPR20 full length protein-synthetic nanodisc

Delivery In Stock Uniprot ID 099678 HEK293 **Expression Host**

Protein Families Druggable Genome, GPCR, Transmembrane

Protein Pathways

Background

Molecular Weigh The human full length GPR20 protein has a MW of 38.7 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 of reconstitution. Storage & Shipping

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). Lyophilized proteins are shipped at ambient temperature.

GRZ0 is one of the orphan GPCRS that has been identified from human genomic DNA by PCR amplification using primers based on the sequences of the opioid/somatostatin-related receptors, GPR7 and GPR8. The expression of human GPR20 has been detected in several brain regions, including the caudate nucle, putamen, and the thalamus. A recently disclosed patent demonstrated that GRZ0-deficient inclusibilitied a hyperactivity disorder characterized by an increase in total distance traveled in an open field test, implying a substantial role of GRZ20 in neurophysiological function. However, the physiological mechanisms of GRZ0 action, including the identification of natural ligends for GRZ20 and won toy te been delucidated.

Usage Research use only Unconjugated

ELISA assay to evaluate GPR20-Nanodisc 0.2µg Human GPR20-Nanodisc per well

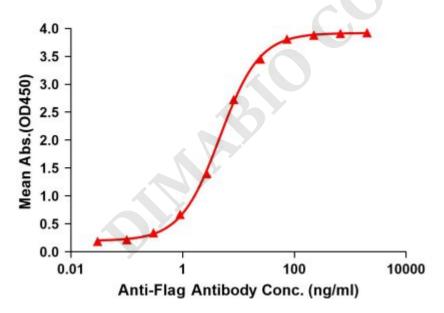


Figure 1. Elisa plates were pre-coated with Flag Tag GPR20-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with GPR20-Nanodisc is 4.663 ng/ml.

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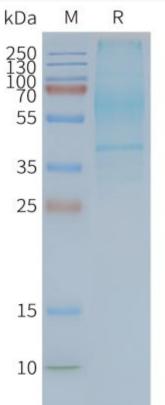


Figure 2. Human GPR 20-Nanodisc, Flag Tag on SDS-PAGE



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