

PRODUCT INFORMATION

Tag C-Flag Tag

GRPR Target

Synonyms BB2; BB2R; BRS2

Human GRPR full length protein-synthetic **Description**

nanodisc **Delivery** In Stock **Uniprot ID** P30550 **Expression Host HEK293**

Formulation & Reconstitution

Storage & Shipping

Background

Protein Families Druggable Genome, GPCR, Transmembrane

Calcium signaling pathway, Neuroactive ligand-**Protein Pathways**

receptor interaction

The human full length GRPR protein has a MW of **Molecular Weight**

43.2 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. 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

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

temperature.

Gastrin-releasing peptide (GRP) regulates numerous functions of the gastrointestinal and central nervous systems, including release of gastrointestinal hormones, smooth muscle cell contraction, and epithelial cell proliferation and is a potent mitogen for neoplastic tissues. The effects of GRP are mediated through the gastrinreleasing peptide receptor. This receptor is a glycosylated, 7-transmembrane G-protein coupled receptor that activates the phospholipase C

signaling pathway. The receptor is aberrantly expressed in numerous cancers such as those of the lung, colon, and prostate. An individual with autism and multiple exostoses was found to have a balanced transiocation between chromosome 8 and a chromosome X breakpoint located within the gastrin-releasing peptide receptor gene.

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

Usage Research use only Conjugate Unconjugated





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

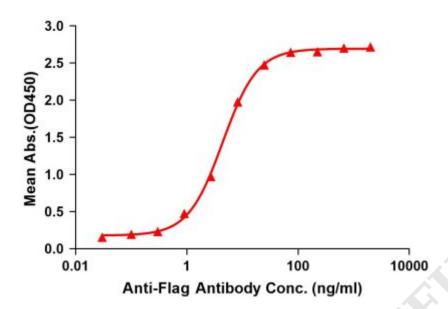


Figure 1. Elisa plates were pre-coated with Flag Tag GRPR-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with GRPR-Nanodisc is 4.434ng/ml.

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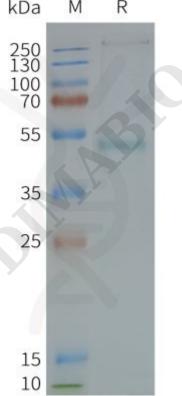


Figure 2. Human GRPR-Nanodisc, Flag Tag on SDS-PAGE

