

PRODUCT INFORMATION

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Human DRD2 full length protein-synthetic nanodisc

Delivery Uniprot ID P14416 HEK293 **Expression Host**

Protein Families Druggable Genome, GPCR, Transmembrane Protein Pathways Gap junction, Neuroactive ligand-receptor interaction Molecular Weigh The human full length DRD2 protein has a MW of 50.6 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 lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution. Formulation & Reconstitution

Storage & Shipping

Store at -20°C to -80°C for I2 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. This G-protein coupled receptor inhibits adenyly cyclase activity. A missense mutation in this gene causes myoclonus dystonia; other mutations have been associated with schizophrenia. Alternative splicing of this gene results in two transcript variants encoding different isoforms. A third variant has been described, but it has not been determined whether this form is normal or due to abernant splicing.

Usage arch use only Conjugate Unconjugated

ELISA assay to evaluate DRD2-Nanodisc 0.2µg Human DRD2-Nanodisc per well

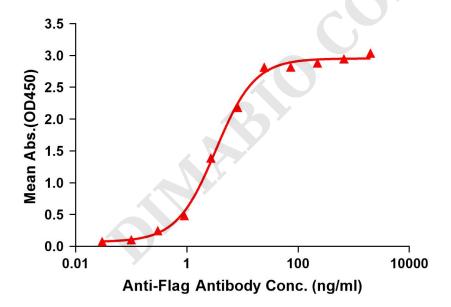


Figure 1. Elisa plates were pre-coated with Flag Tag DRD2-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with DRD2-Nanodisc is 3.314ng/ml.

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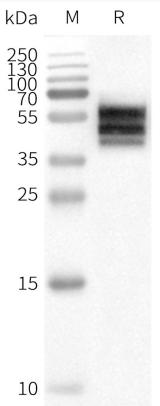


Figure 2. WB analysis of Human DRD2-Nanodisc with anti-Flag monoclonal antibody at 1/5000 dilution, followed by Goat Anti-Rabbit IgG HRP at 1/5000 dilution

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