Cat. No. FLP120229



PRODUCT INFORMATION

C-Flag&Strep Tag Tag

DRD1 **Target**

DADR; DRD1A **Synonyms**

Human DRD1-Strep full length protein-synthetic **Description**

nanodisc **Delivery** In Stock **Uniprot ID** P21728

Expression Host HEK293

Protein Families Druggable Genome, GPCR, Transmembrane

Calcium signaling pathway, Gap junction, Neuroactive ligand-receptor interaction **Protein Pathways**

The human full length DRD1-Strep protein has a **Molecular Weight**

MW of 49.3 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 Formulation & Reconstitution lyophilization. Please see Certificate of Analysis

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

Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

This protein is D1 subtype of the dopamine receptor. The D1 subtype is the most abundant dopamine receptor in the central nervous system.

This G-protein coupled receptor stimulates adenylyl cyclase and activates cyclic AMP-

dependent protein kinases. D1 receptors regulate neuronal growth and development, mediate some behavioral responses, and modulate dopamine receptor D2-mediated events.

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

Usage Research use only Conjugate Unconjugated

Background





ELISA assay to evaluate DRD1-Strep-Nanodisc 0.2µg Human DRD1-Strep-Nanodisc per well

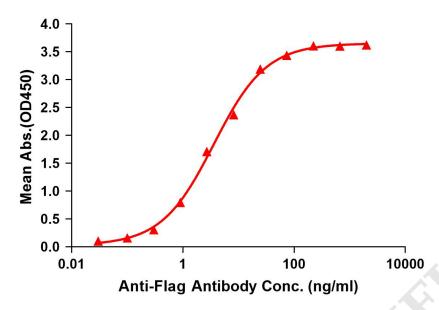


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag DRD1-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with DRD1-Strep-nanodisc is 3.600ng/ml.

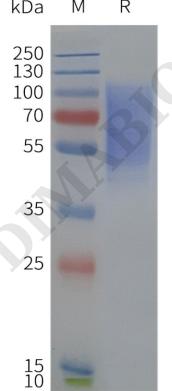


Figure 2. Human DRD1-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

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