

PRODUCT INFORMATION

C-Flag&Strep Tag Tag

OPRD1 **Target**

Synonyms DOP; DOR; DOR1; OPRD

Human OPRD1-Strep full length protein-synthetic **Description**

nanodisc

Delivery In Stock **Uniprot ID** P41143 **Expression Host HEK293**

Druggable Genome, GPCR, Transmembrane **Protein Families**

Protein Pathways Neuroactive ligand-receptor interaction

The human full length OPRD1-Strep protein has a **Molecular Weight**

MW of 40.4 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 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 at -80°C (Avoid repeated freezing and thawing). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

G-protein coupled receptor that functions as receptor for endogenous enkephalins and for a subset of other opioids. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling leads to the inhibition of adenylate cyclase activity. Inhibits neurotransmitter release by

reducing calcium ion currents and increasing potassium ion conductance. Plays a role in the perception of pain and in opiate-mediated analgesia. Plays a role in developing analgesic

tolerance to morphine.

Usage Research use only Conjugate Unconjugated

Background

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





ELISA assay to evaluate OPRD1-Strep-Nanodisc 0.2µg Human OPRD1-Strep-Nanodisc per well

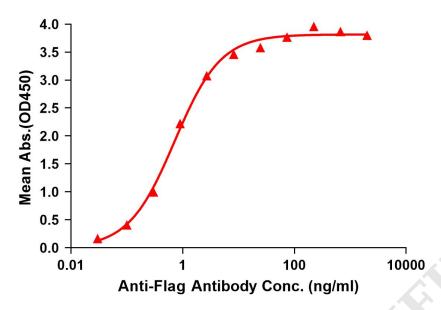


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag OPRD1-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with OPRD1-Strep-nanodisc is 0.720ng/ml.

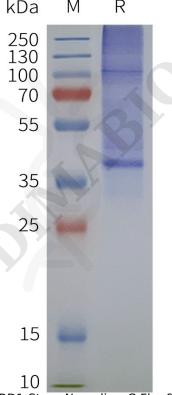


Figure 2. Human OPRD1-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

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