**Delivery** 

Formulation & Reconstitution

Storage & Shipping

**Background** 



## **PRODUCT INFORMATION**

C-Flag&Strep Tag Tag

OPRD1 **Target** 

**Synonyms** DOP; DOR; DOR1; OPRD

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

nanodisc In Stock

**Uniprot ID** P41143 **Expression Host HEK293** 

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

**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 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.

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

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





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

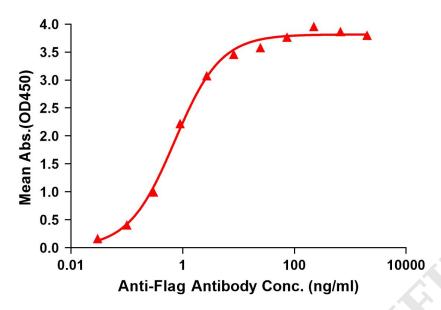


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag OPRD1-Strep-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody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

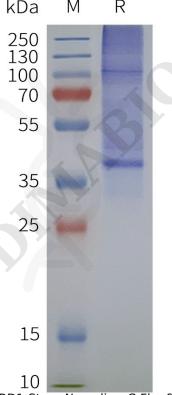


Figure 2. Human OPRD1-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

Address: Wuhan institute of Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China Telephone: +1 2409940618(USA) /+86-18062749453(China) /+86-400-006-0995(China)

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

