

PRODUCT INFORMATION

|                              |  |
|------------------------------|--|
| Tag                          | C-Flag Tag   |
| Target                       | OPRD   |
| Synonyms                     | DOP, DOR, DOR1, OPRD   |
| Description                  | Human OPRD full length protein-synthetic nanodisc  |
| Delivery                     | 6~8weeks   |
| Uniprot ID                   | P41143   |
| Expression Host              | HEK293   |
| Protein Families             | Transmembrane,Druggable Genome,  |
| Protein Pathways             | GPCRDB Class A Rhodopsin-like,Peptide GPCRs,Autoimmune & Inflammatory Response,G-Protein Coupled Receptors Signaling Pathway,Na2+ /NF-AT Signaling Pathways,   |
| Molecular Weight             | The human full length OPRD protein has a MW of 40.4kDa   |
| Formulation & Reconstitution | 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.   |
| Storage & Shipping           | 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.  |
| Background                   | 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.[UniProtKB/Swiss-Prot Function] |
| Usage                        | Research use only  |
| Conjugate                    | Unconjugated   |

