Delivery

Background



PRODUCT INFORMATION

OPRD Target

Synonyms DOP, DOR, DOR1, OPRD

Human OPRD full length protein-synthetic **Description**

nanodisc 6~8weeks

Uniprot ID P41143 **Expression Host HEK293**

Protein Families Transmembrane, Druggable Genome,

GPCRDB Class A Rhodopsin-like, Peptide

GPCRs, Autoimmune & Inflammatory Response, G-**Protein Pathways**

Protein Coupled Receptors Signaling Pathway, Na2+/NF-AT Signaling Pathways,

The human full length OPRD protein has a MW of

Molecular Weight 40.4kDa

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 & lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with Reconstitution

pH lower than 6.5 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 Storage & Shipping at -80°C (Avoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient

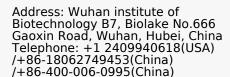
temperature.

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.[UniProtKB/Swiss-Prot

Function]

Research use only Usage



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