

HDFP373

Product Information

Product SKU:	HDFP373	Expression Host:	HEK293	Size:	10µg
Target:	OPRD	Tag:	C-Flag Tag		

Additional Information

Conjugate:	Unconjugated	Uniprot ID:	P41143
Molecular Weight:	The human full length OPRD protein has a MW of 40.4kDa		

Protein Information

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]

Synonyms: DOP, DOR, DOR1, OPRD

Protein Description: Human OPRD full length protein-synthetic nanodisc

Formulation: 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.

Protein Pathways: GPCRDB Class A Rhodopsin-like, Peptide GPCRs, Autoimmune & Inflammatory Response, G-Protein Coupled Receptors Signaling Pathway, Na²⁺/NF-AT Signaling Pathways.

Protein Families: Transmembrane, Druggable Genome.

Contact Details | Dublin, Ireland

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Usage: Research use only

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.

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