# Nanodisc Human 5HT1D Protein

**HDFP154**

## Product Information

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| **Product SKU**: | HDFP154 | **Expression Host**: | HEK293 | **Size**: | 10µg |
| **Target**: | 5HT1D | **Tag**: | C-Flag Tag | | |

## Additional Information

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| **Conjugate**: | Unconjugated | **Uniprot ID:** | P28221 |
| **Molecular Weight:** | The human full length 5HT1D protein has a MW of 41.9kDa | | |

## Protein Information

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| **Background**: | G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for ergot alkaloid derivatives, various anxiolytic and antidepressant drugs and other psychoactive substances. 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 inhibits adenylate cyclase activity. Regulates the release of 5-hydroxytryptamine in the brain, and thereby affects neural activity. May also play a role in regulating the release of other neurotransmitters. May play a role in vasoconstriction.[UniProtKB/Swiss-Prot Function] |
| **Synonyms**: | 5-HT1D, HT1DA, HTR1DA, HTRL, RDC4 |
| **Protein Description**: | Human 5HT1D 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, Monoamine GPCRs. |
| **Protein Families:** | GPCR, Transmembrane, Druggable Genome. |
| **Usage**: | Research use only |

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**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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