

**HDFP391**

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## Product Information

|                     |         |                         |            |              |      |
|---------------------|---------|-------------------------|------------|--------------|------|
| <b>Product SKU:</b> | HDFP391 | <b>Expression Host:</b> | HEK293     | <b>Size:</b> | 10µg |
| <b>Target:</b>      | OR1D5   | <b>Tag:</b>             | C-Flag Tag |              |      |

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## Additional Information

|                          |                                                         |                    |        |
|--------------------------|---------------------------------------------------------|--------------------|--------|
| <b>Conjugate:</b>        | Unconjugated                                            | <b>Uniprot ID:</b> | P58170 |
| <b>Molecular Weight:</b> | The human full length OR1D5 protein has a MW of 35.4kDa |                    |        |

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## Protein Information

**Background:** Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. [provided by RefSeq, Jul 2008]

**Synonyms:** C17orf2, OR17-2, OR17-30, OR17-31, OR1D4

**Protein Description:** Human OR1D5 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.

**Protein Families:** 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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