

**PRODUCT INFORMATION**

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| <b>Tag</b>                              | C-Flag&Strep Tag   |
| <b>Target</b>                           | OPSD   |
| <b>Synonyms</b>                         | CSNBAD1, OPN2, RP4   |
| <b>Description</b>                      | Human OPSD-Strep full length protein-synthetic nanodisc  |
| <b>Delivery</b>                         | 6~8weeks   |
| <b>Uniprot ID</b>                       | P08100   |
| <b>Expression Host</b>                  | HEK293   |
| <b>Protein Families</b>                 | Transmembrane,Druggable Genome,  |
| <b>Protein Pathways</b>                 | GPCRDB Class A Rhodopsin-like,Integrin-mediated cell adhesion KEGG,G-Protein Coupled Receptors Signaling Pathway,  |
| <b>Molecular Weight</b>                 | The human full length OPSD-Strep protein has a MW of 38.9 kDa  |
| <b>Formulation &amp; Reconstitution</b> | 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. |
| <b>Storage&amp;Shipping</b>             | 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.  |
| <b>Background</b>                       | The protein encoded by this gene is found in rod cells in the back of the eye and is essential for vision in low-light conditions. The encoded protein binds to 11-cis retinal and is activated when light hits the retinal molecule. Defects in this gene are a cause of congenital stationary night blindness. [provided by RefSeq, Aug 2017]                                      |
| <b>Usage</b>                            | Research use only  |
| <b>Conjugate</b>                        | Unconjugated   |

