

**PRODUCT INFORMATION**

<b>Tag</b>	C-Flag Tag
<b>Target</b>	OPSD
<b>Synonyms</b>	CSNBAD1, OPN2, RP4
<b>Description</b>	Human OPSD 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 protein has a MW of 38.9kDa
<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

