

## HDFP1110

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### Product Information

<b>Product SKU:</b>	HDFP1110	<b>Expression Host:</b>	HEK293	<b>Size:</b>	10µg
<b>Target:</b>	OPSB	<b>Tag:</b>	C-Flag&Strep Tag		

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### Additional Information

<b>Conjugate:</b>	Unconjugated	<b>Uniprot ID:</b>	P03999
<b>Molecular Weight:</b>	The human full length OPSB-Strep protein has a MW of 38.7 kDa		

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### Protein Information

**Background:** This gene belongs to the G-protein coupled receptor 1 family, opsin subfamily. It encodes the blue cone pigment gene which is one of three types of cone photoreceptors responsible for normal color vision. Defects in this gene are the cause of tritan color blindness (tritanopia). Affected individuals lack blue and yellow sensory mechanisms while retaining those for red and green. Defective blue vision is characteristic. [provided by RefSeq, Jul 2008]

**Synonyms:** BCP, BOP, CBT

**Protein Description:** Human OPSB-Strep 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

**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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