

Datasheet for ABIN7596863

**Rhodopsin Protein (RHO) (DYKDDDDK Tag, Strep Tag)**[Go to Product page](#)

## Overview

Quantity:	10 µg
Target:	Rhodopsin (RHO)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc
Purification tag / Conjugate:	This Rhodopsin protein is labelled with DYKDDDDK Tag, Strep Tag.
Application:	Immunogen (Imm), Surface Plasmon Resonance (SPR), Phage Display (PhD), ELISA, Cryogenic electron microscopy (cryo-EM)

## Product Details

Purpose:	Human OPSD-Strep full length protein-synthetic nanodisc
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## Target Details

Target:	Rhodopsin (RHO)
Alternative Name:	OPSD ( <a href="#">RHO Products</a> )
Background:	<p>CSNBAD1, OPN2, RP4</p> <p>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]</p>
Molecular Weight:	The human full length OPSD-Strep protein has a MW of 38.9 kDa

## Target Details

UniProt:	<a href="#">P08100</a>
Pathways:	<a href="#">WNT Signaling</a> , <a href="#">Sensory Perception of Sound</a> , <a href="#">Regulation of G-Protein Coupled Receptor Protein Signaling</a> , <a href="#">Phototransduction</a>

## Application Details

Comment:	<p>Advantages:</p> <ul style="list-style-type: none"><li>• Highly purified membrane proteins</li><li>• High solubility in aqueous solutions</li><li>• High stability</li><li>• Proteins are in a native membrane environment and remain biologically active</li><li>• No detergent and can be used for cell-based assays</li><li>• No MSP backbone proteins</li><li>• Mammalian cell expression system ensures post- translational modifications</li></ul>
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Buffer:	Solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.
Storage:	-20 °C, -80 °C
Storage Comment:	<p>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).</p> <p>Lyophilized proteins are shipped at ambient temperature.</p>
Expiry Date:	12 months