Cat. No. FLP120380



PRODUCT INFORMATION

C-Flag&Strep Tag Tag

OPN4 **Target** MOP **Synonyms**

Storage & Shipping

Background

Human OPN4-Strep full length protein-synthetic **Description**

nanodisc **Delivery** 6~8weeks **Uniprot ID** Q9UHM6 **Expression Host HEK293**

Transmembrane, Druggable Genome, **Protein Families**

Protein Pathways GPCRDB Class A Rhodopsin-like,

The human full length OPN4-Strep protein has a **Molecular Weight**

MW of 52.6 kDa 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 Formulation & Reconstitution

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. 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.

Opsins are members of the guanine nucleotide-binding protein (G protein)-coupled receptor superfamily. This gene encodes a photoreceptive opsin protein that is expressed within the ganglion and amacrine cell layers of the retina. In mouse, retinal ganglion cell axons expressing this gene projected to the suprachiasmatic nucleus and other brain nuclei involved in circadian photoentrainment. In mouse, this protein is coupled to a transient receptor potential (TRP) ion

channel through a G protein signaling pathway and produces a physiologic light response via membrane depolarization and increased intracellular calcium. The protein functions as a sensory photopigment and may also have photoisomerase activity. Experiments with knockout mice indicate that this gene attenuates,

but does not abolish, photoentrainment.

Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by

> Email: info@dimabio.com Website: www.dimabio.com

RefSeg, Jul 2008]

Usage Research use only

Conjugate Unconjugated

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