

PRODUCT INFORMATION

Tag C-Flag&Strep Tag

Target OPN4
Synonyms MOP

DescriptionHuman OPN4-Strep full length protein-synthetic

nanodisc

Delivery 6~8weeks

Uniprot ID Q9UHM6

Expression Host HEK293

Protein Families Transmembrane, Druggable Genome,

Protein Pathways GPCRDB Class A Rhodopsin-like,

Molecular Weight

The human full length OPN4-Strep protein has a

MW of 52.6 kDa

Formulation & Reconstitution 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

TOP

Storage & Shipping

Storag

Lyophilized proteins are shipped at ambient

temperature.

Opsins are members of the guanine nucleotidebinding 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

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

RefSeq, Jul 2008]

Usage Research use only
Conjugate Unconjugated



Background