

PRODUCT INFORMATION

Target OPN4 MOP **Synonyms**

Recombinant human OPN4 Protein with C-Description

terminal human Fc tag

Delivery In Stock **Uniprot ID** Q9UHM6 **Expression Host HEK293**

Tag C-Human Fc tag

Molecular

Background

OPN4(Met1-Thr72) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of **Molecular Weight** 33.7 kDa after removal of the signal peptide.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

Purity

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before Formulation &

lyophilization. Please see Certificate of Analysis Reconstitution for specific instructions of reconstitution.

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). Storage & Shipping

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 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

RefSeq, Jul 2008]

Usage Research use only

Conjugate Unconjugated

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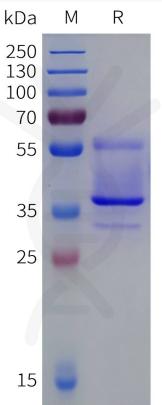


Figure 1. Human OPN4 Protein, hFc Tag on SDS-PAGE under reducing condition.

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