

Product Information

MemDX™ Membrane Protein Human OPN1MW (Opsin 1, medium wave sensitive) Expressed *in vitro* E.coli expression system, Full Length

Cat. No.: **MPX3467K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human OPN1MW membrane protein expressed *in vitro* E.coli expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

OPN1MW

Protein Length

Full Length

Protein Class

GPCR

TMD

7

Sequence

MAQQWSLQRLAGRHPQDSYEDSTQSSIFTYTNSNSTRGPFEGPNYHIAPRWVYHLTSVWMIFVVIASVFTNGLVLAATMKFKKLRH

Product Description

Expression Systems

in vitro E.coli expression system

Tag

10xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

OPN1MW

Full Name

Opsin 1, medium wave sensitive

Introduction

This gene encodes for a light absorbing visual pigment of the opsin gene family. The encoded protein is called green cone photopigment or medium-wavelength sensitive opsin. Opsins are G-protein coupled receptors with seven transmembrane domains, an N-terminal extracellular domain, and a C-terminal cytoplasmic domain. The long-wavelength opsin gene and multiple copies of the medium-wavelength opsin gene are tandemly arrayed on the X chromosome and frequent unequal recombination and gene conversion may occur between these sequences. X chromosomes may have fusions of the medium- and long-wavelength opsin genes or may have more than one copy of these genes. Defects in this gene are the cause of deutanopic colorblindness.

Alternative Names

OPN1MW; CBD; GCP; GOP; CBBM; COD5; OPN1MW1; medium-wave-sensitive opsin 1; Medium-wave-sensitive opsin 2; Opsin 1 cone pigments medium-wave-sensitive 2; cone dystrophy 5 (X-linked); green cone photoreceptor pigment; green cone pigment; green-sensitive opsin; opsin 1 (cone pigments), medium-wave-sensitive; photopigment apoprotein; Opsin 1, medium wave sensitive

Gene ID

[2652](#)

UniProt ID

[P04001](#)