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Product Information

MemDX™ Membrane Protein Human OPN1MW (Opsin 1, medium wave sensitive) Full Length

Cat. No.: **MPC0313K**
This product is for research use only and is not intended for diagnostic use.

This product is a 40.5 kDa Human OPN1MW membrane protein expressed in Baculovirus/Insect 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

Molecular Weight
40.5 kDa

TMD
7

Sequence
MAQQWSLQRLAGRHPQDSYEDSTQSSIFTYTNSNSTRGPFEGPNYHIAPR
WVYHLTSVWMIFVVIASVFTNGLVLAATMKFKKLRHPLNWILVNLAVADL
AETVIASTISVVNQVYGYFVLGHPMCVLEGYTVSLCGITGLWSLAIISWE
RWMVVCKPFGNVRFDAKLAIVGIAFSWIWAAVWTAPPIFGWSRYWPHGLK
TSCGPDVFSGSSYPGVQSYMIVLMVTCCITPLSIIVLCYLQVWLAIRAVA
KQQKESESTQKAEKEVTRMVVVMVLAFCFCWGPYAFFACFAAANPGYPFH
PLMAALPAFFAKSATIYNPVIYVFMNRQFRNCILQLFGKKVDDGSELSSA
SKTEVSSVSSVSPA

Product Description

Expression Systems
Baculovirus/Insect expression system

Tag
Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

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

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

Gene ID

2652

UniProt ID

P04001

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