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Product Information

MemDX™ Membrane Protein Human OPN1LW (Opsin 1, long wave sensitive) Full Length

Cat. No.: **MPC1086K**
This product is for research use only and is not intended for diagnostic use.

This product is a 40.5 kDa Human OPN1LW membrane protein expressed in HEK293. 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
OPN1LW

Protein Length
Full length

Protein Class
GPCR

Molecular Weight
40.5 kDa

TMD
7

Sequence
MAQQWSLQRLAGRHPQDSYEDSTQSSIFTYTNSNSTRGPFEGPNYHIAPR
WVYHLTSVWMIFVVTASVFTNGLVLAATMKFKKLRHPLNWILVNLAVADL
AETVIASTISIVNQVSGYFVLGHPMCVLEGYTVSLCGITGLWSLAIISWE
RWLVVCKPFGNVRFDAKLAIVGIAFSWIWSAVWTAPPIFGWSRYWPHGLK
TSCGPDVFSGSSYPGVQSYMIVLMVTCCIIPLAIIMLCYLQVWLAIRAVA
KQQKESESTQKAEKEVTRMVVVMIFAYCVCWGPYTFFACFAAANPGYAFH
PLMAALPAYFAKSATIYNPVIYVFMNRQFRNCILQLFGKKVDDGSELSSA
SKTEVSSVSSVSPA

Product Description

Expression Systems
HEK293

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

OPN1LW

Full Name

Opsin 1, long wave sensitive

Introduction

This gene encodes for a light absorbing visual pigment of the opsin gene family. The encoded protein is called red cone photopigment or long-wavelength sensitive opsin. Opsins are G-protein coupled receptors with seven transmembrane domains, an N-terminal extracellular domain, and a C-terminal cytoplasmic domain. This gene and 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 partial, protanopic colorblindness.

Alternative Names

OPN1LW; CBP; RCP; ROP; CBBM; COD5; long-wave-sensitive opsin 1; cone dystrophy 5 (X-linked); opsin 1 (cone pigments), long-wave-sensitive; red cone opsin; red cone photoreceptor pigment; red-sensitive opsin; Opsin 1, long wave sensitive

Gene ID

5956

UniProt ID

P04000