

OPN1MW Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702399
Synonyms:	Medium-wave-sensitive opsin 1; Green cone photoreceptor pigment; Green-sensitive opsin; GOP
Species:	Human
Source:	E. coli Cell-free
Accession:	P04001 (M1-A364)
Gene ID:	/
Molecular Weight:	46.6 kDa

PROPERTIES

AA Sequence	<p> MAQQWSLQRL AGRHPQDSYE DSTQSSIIFTY TNSNSTRGPF EGPNYHIAPR WVYHLTSVWM IFVVIASVFT NGLVLAATMK FKKLRHPLNW ILVNLAVADL AETVIASTIS VVNQVYGYFV LGHPMCVLEG YTVSLCGITG LWSLAIIISWE RWMVVCKPFG NVRFDAKLA I VGIAFSWIWA AVWTAPPIFG WSRYPHGLK TSCGPDVFSG SSYPGVQSYM IVLMVTCCIT PLSIIVLCYL QVWLAIRAVA KQKKESESTQ KAEKEVTRMV VVMVLAFCFC WGPYAFFACF AAANPGYPFH PLMAALPAFF AKSATIYNPV IYVFMNRQFR NCILQLFGKK VDDGSELSSA SKTEVSSVSS VSPA </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The OPN1MW protein, integral to the process of vision, serves a crucial role as part of visual pigments, the molecules
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responsible for absorbing light and mediating vision. These pigments are composed of an apoprotein, known as opsin, which forms a covalent linkage with cis-retinal. Together, the OPN1MW protein and cis-retinal contribute to the intricate molecular mechanism essential for the perception of light stimuli, enabling the visual process to unfold.

Caution: Product has not been fully validated for medical applications. For research use only.

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