

## OPN1LW Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702398
Synonyms:	Long-wave-sensitive opsin 1; Red cone photoreceptor pigment; Red-sensitive opsin; ROP
Species:	Human
Source:	E. coli Cell-free
Accession:	P04000 (M1-A364)
Gene ID:	/
Molecular Weight:	43.4 kDa

### PROPERTIES

AA Sequence	<pre> MAQQWSLQRL   AGRHPQDSYE   DSTQSSIIFTY   TNSNSTRGPF EGPNYHIAPR   WVYHLTSVWM   IFVVTASVFT   NGLVLAATMK FKKLRHPLNW   ILVNLAVADL   AETVIASITIS   IVNQVSGYFV LGHPMCYLEG   YTVSLCGITG   LWSLAIIISWE   RWLVVCKPFG NVRFDAKLA I   VGIAFSWIWS   AVWTAPPIFG   WSRYPHGLK TSCGPDVFSG   SSYPGVQSYM   IVLMVTCCII   PLAIIMLCYL QVWLAIRAVA   KQKKESESTQ   KAEKEVTRMV   VVMIFAYCVC WGPYTF FACF   AAANPGYAFH   PLMAALPAYF   AKSATIYNPV IYVFMNRQFR   NCILQLFGKK   VDDGSELSSA   SKTEVSSVSS VSPA           </pre>
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 <sub>2</sub> 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 OPN1LW protein, integral to the process of vision, is a key component of visual pigments, which are responsible for
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absorbing light. These pigments comprise an apoprotein known as opsin, which forms a covalent linkage with cis-retinal, facilitating the intricate molecular mechanism essential for the perception of light stimuli in vision.

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

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