

Recombinant Full Length *Xenopus laevis* Red-Sensitive Opsin(Opn1Lw1) Protein, His-Tagged

Cat. No. RFL6308XF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length <i>Xenopus laevis</i> Red-sensitive opsin(opn1lw1) Protein (O12948) (1-365aa), fused to N-terminal His tag, was expressed in <i>E. coli</i> .
Species	<i>Xenopus laevis</i>
Source	<i>E. coli</i>
ProteinLength	Full Length (1-365)
Form	Lyophilized powder
AA Sequence	MASQLNEAIFAARRRNDTTRSSVFTYTNSENTRGPFEGPNYHIAPRWVYNLTSI WMI FVVFASVFTNGLVIVATLKFKKLRHPLNWILVNMAIADLGETVIASTISVFNQIFG YFIL GHPMCYLEGFTVSTCGITALWSLTVIAWERWFVCKPFGNIKFDEKLAATGIIF SWVWSA GWCAPPMFGWSRFPWPHGLKTSCGPDVFSGSSDPGVQSYMLVLMITCCI IPLAIILCYLH VWWTIRQVAQQQKESESTQKAEREVSRMVVVMIVAYIFCWGPYTFE ACFAAFSPGYSFHP LAAALPAYFAKSATIYNPIIYVFMNRQFRNCIYQMFGKKVDDG SEVSSTSRTTEVSSVSNS SVSPA
Purity	Greater than 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

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Storage	Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.
Storage Buffer	Tris/PBS-based buffer, 6% Trehalose, pH 8.0
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
GENE INFORMATION	
Gene Name	opn1lw1
Synonyms	opn1lw1; Red-sensitive opsin; Red cone photoreceptor pigment
UniProt ID	O12948

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