

Recombinant Full Length Dog Long-Wave-Sensitive Opsin 1(Opn1Lw) Protein, His-Tagged

Cat. No. RFL31080CF Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Dog Long-wave-sensitive opsin 1(OPN1LW) Protein (O18914) (1-364aa), fused to N-terminal His tag, was expressed in E. coli.
Species	Dog
Source	E.coli
ProteinLength	Full Length (1-364)
Form	Lyophilized powder
AA Sequence	MTQRWGPQRLAGGQPQAGLEESTQASIFTYTNSNATRDPFEGPNYHIAPRWVYHL TSAWM IFVVIASVFTNGLVLVATMRFKCLRHPLNWILVNLAIADLAETIIASTISVVNQI YGYFV LGHPLCVVEGYTVSLCGITGLWSLAIISWERWLVVCKPFGNVRFDAKLAIAIGI AFSWIWA AVWTAPPIFGWSRYWPHGLKTSCGPDVFSGSSYPGVQSYMIVLMTTCC IIPLSVIIICYL QVWLAIRAVAKQQKESESTQKAEKEVTRMVVVMVLAYCLCWGPYTF FACFAAAHPGYAFH PLVAALPAYFAKSATIYNPIIYVFMNRQFRNCILQLFGKKVDDS SELSSASRTEASSVSS VSPA
Purity	Greater than 90% as determined by SDS-PAGE.
Applications	SDS-PAGE
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C

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for up to one week.

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**

OPN1LW

Synonyms

OPN1LW; RCP; Long-wave-sensitive opsin 1; Red cone photoreceptor pigment; Red-sensitive opsin

UniProt ID

[O18914](#)

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