

# Recombinant Full Length Rat Short-Wave-Sensitive Opsin 1(Opn1Sw) Protein, His-Tagged

Cat. No. RFL31456RF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Rat Short-wave-sensitive opsin 1(Opn1sw) Protein (Q63652) (1-346aa), fused to N-terminal His tag, was expressed in E. coli.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>ProteinLength</b>	Full Length (1-346)
<b>Form</b>	Lyophilized powder
<b>AA Sequence</b>	MSGEDFYLFQNISSVGPWDGPQYHIAPVWAFHLQAAFMGVFFAGTPLNATVLVA TLHY KCLRQPLNYILVNVSLGGFLFCIFSVFTVFIASCHGYFLFGRHVCALEAFLGSV AGLVTG WSLAFLAFERYLVICKPFGNIRFNSKHALTVVLITWTIGIGVSIPPPFGWSRF IPEGLQC SCGPDWYTVGTYRSEHYTWFLFIFCFIPLSLICFSYFQLLRTLRAVAAQ QQESATTQK AEREVSHMVVVMVGSFCLCYVPYAALAMYMVNNRNHGLYLRLVTIP AFFSKSSCVYNPII YCFMKNQFRACILEMVCRKPMTDESDMSGSQKTEVSTVSSSK VGPH
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

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<b>Storage</b>	Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.
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<b>Storage Buffer</b>	Tris/PBS-based buffer, 6% Trehalose, pH 8.0
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<b>Reconstitution</b>	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.
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## GENE INFORMATION

<b>Gene Name</b>	Opn1sw
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<b>Synonyms</b>	Opn1sw; Bcp; Short-wave-sensitive opsin 1; S opsin; Blue cone photoreceptor pigment; Blue-sensitive opsin; BOP; Short wavelength-sensitive cone opsin
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<b>UniProt ID</b>	<a href="#">Q63652</a>
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