

Recombinant Full Length Danio Rerio Melanopsin-A(Opn4A) Protein, His-Tagged

Cat. No. RFL17710DF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Danio rerio Melanopsin-A(opn4a) Protein (Q2KNE5) (1-593aa), fused to N-terminal His tag, was expressed in E. coli.
Species	zebrafish
Source	E.coli
ProteinLength	Full Length (1-593)
Form	Lyophilized powder
AA Sequence	MMSGAAHSVRKGISCPTQDPNCTRIVESLSAWNDSVMSAYRLVDLPPTTTTTTSVA MVEE SVYPFPTVDVPDHAHYTIGAVILTVGITGMLGNFLVIYAFSRRTLRTPANLFII NLAIT DFLMCATQAPIFFTTSMHKRWIFGEKGCELYAFCGALFGICSMITLMVIAVDR YFVITRP LASIGVLSQKRALLILLVAWVYSLGWSLPPFFGWSAYVPEGLLTCTWDY MTFTPSVRAY TMLLFIVFFIPLIVIIYCYFFIFRSIRTTNEAVGKINGDNKRDSMKRFQ RLKNEWKMAK IALIVILMYVISWSPYSTVALTAFAGYSDFLTPYMNSVPAVIAKASAIH NPIIYAITHPK YRLAIKYIPCLRLLLCVPKRDLSHFHSSLMSTRRSTVTSQSSDMSGR FRRTSTGKSRLS SASDSESGWTDTEADLSSMSSRPASRQVSCDISKDTAEMPDKF PCNSSSFKSKLKSHDSG IFEKSSSDVDDVSVAGIIQPDRTL TNAGDITDVPISGAIG RIPSIVITSESSSLLPSVR PTYRISRSNVSTVGTPARRDSRGGVQQGAAHLSNAAE TPESGHIDNHRPQYL
Purity	Greater than 90% as determined by SDS-PAGE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C 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	opn4a
Synonyms	opn4a; opn4; opn4d; opn4m1; Melanopsin-A; Mammalian-like melanopsin; Melanopsin-M; Opsin-4-A; Opsin-4M
UniProt ID	Q2KNE5

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