

Datasheet for ABIN7563382

OPN1SW Protein (AA 1-346) (His tag)



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Overview

Quantity:	1 mg
Target:	OPN1SW
Protein Characteristics:	AA 1-346
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OPN1SW protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Opn1sw Protein expressed in mammalien cells.
Sequence:	<p>MSGEDDFYLF QNISSVGPWD GPQYHLAPVW AFRLQAAFVG FVFFVGTPLN AIVLVATLHY</p> <p>KKLRQPLNYI LVNVSLGGFL FCIFSVFTVF IASCHGYFLF GRHVCALEAF LGSVAGLVTG</p> <p>WSLAFLAFER YVVICKPFGS IRFNSKHALM VVLATWIIGI GVSIPFFGW SRFIPEGLQC</p> <p>SCGPDWYTVG TKYRSEYYTW FLFIFCFIIP LSLICFSYSQ LLRTLRAVAA QQQESATTQK</p> <p>AEREVSHMVV VMVGSFCLCY VPYAALAMYM VNNRNHGLDL RLVTIPAFFS KSSCVYNPII</p> <p>YCFMKNQFRA CILEMVCRKP MAESDVSGS QKTEVSTVSS SKVGPH Sequence without tag.</p> <p>The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	OPN1SW
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Alternative Name:	Opn1sw (OPN1SW Products)
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Background:	Short-wave-sensitive opsin 1 (S opsin) (Blue cone photoreceptor pigment) (Blue-sensitive opsin) (BOP) (Short wavelength-sensitive cone opsin),FUNCTION: Visual pigments are the light-absorbing molecules that mediate vision. They consist of an apoprotein, opsin, covalently linked to cis-retinal (By similarity). Required for the maintenance of cone outer segment organization in the ventral retina, but not essential for the maintenance of functioning cone photoreceptors (PubMed:21219924, PubMed:25416279). Involved in ensuring correct abundance and localization of retinal membrane proteins (PubMed:25416279). May increase spectral sensitivity in dim light (PubMed:11055434). {ECO:0000250 UniProtKB:P03999, ECO:0000269 PubMed:11055434, ECO:0000269 PubMed:21219924, ECO:0000269 PubMed:25416279}.
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Molecular Weight:	38.9 kDa
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UniProt:	P51491
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Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months