

Datasheet for ABIN7561771

OPN4 Protein (AA 1-521) (His tag)



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Overview

Quantity:	1 mg
Target:	OPN4
Protein Characteristics:	AA 1-521
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OPN4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Opn4 Protein expressed in mammalien cells.
Sequence:	MDSPSGPRVL SSLTQDPSFT TSPALQGIWN GTQNVSVRAQ LLSVSPTTSA HQAAAWVPFP TVDPDHAHY TLGTVILLVG LTGMLGNLTV IYTCRNRGL RTPANMFIIN LAVSDFLMSV TQAPVFFASS LYKKWLFGET GCEFYAFCGA VFGITSMITL TAIAMDRYLV ITRPLATIGR GSKRRTALVL LGVWLYALAW SLPPFFGWSA YVPEGLLTSC SWDYMTFTPQ VRAYTMLLFC FVFFLPLLI IFCYIFIFRA IRETGRACEG CGESPLRQRR QWQRLQSEWK MAKVALIVIL LFVLSWAPYS TVALVAFAGY SHILTPYMSS VPAVIAKASA IHNPIYAIT HPKYRVAIAQ HLPCLGVLLG VSGQRSHPSL SYRSTHRSTL SSQSSDLSWI SGRKRQESLG SESEVGWTD ETTAAWGAAQ QASGQSFCSSQ NLEDGELKAS SSPQVQRSKT PKVPGPSTCR PMKGQGARPS SLRGDQKGRL AVCTGLSECP HPHTSQFPLA FLEDDVTLRH L Sequence without tag. 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

Product Details

request, please contact us.

Characteristics:

Key Benefits:

- 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

Grade:

custom-made

Target Details

Target:

OPN4

Alternative Name:

Opn4 ([OPN4 Products](#))

Background:

Melanopsin (Opsin-4),FUNCTION: Photoreceptor that binds cis-retinaldehydes (PubMed:19793992). Contributes to pupillar reflex, photoentrainment and other non-image forming responses to light (PubMed:12808468). May be involved in the optokinetic visual tracking response (PubMed:26392540). May be involved in the regulation of retinal hyaloid vessel growth and regression (PubMed:30936473). {ECO:0000269|PubMed:12808468, ECO:0000269|PubMed:19793992, ECO:0000269|PubMed:26392540, ECO:0000269|PubMed:30936473}.

Molecular Weight:

57.2 kDa

UniProt:

[Q9QXZ9](#)

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