

Datasheet for ABIN7550501

OPN4 Protein (AA 1-478) (His tag)



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Overview

Quantity:	1 mg
Target:	OPN4
Protein Characteristics:	AA 1-478
Origin:	Human
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 mammalian cells.
Sequence:	<p>MNPPSGPRVP PSPTQEPSCM ATPAPPSWWD SSQSSISLGLRLPSISPTAP GTWAAAWVPL PTVDVPDHAH YTLGTVILLV GLTGMLGNLT VIYTFCSRSLRTPANMFII NLAVSDFLMS FTQAPVFFTS SLYKQWLFGE TGCEFYAFCG ALFGISSMIT LTAIALDRYL VITRPLATFG VASKRRAAFV LLGVWLYALA WSLPPFFGWS AYVPEGLLTS CSWDYMSFTP AVRAYTMLLC CFVFFLPLLI IYCYIFIFR AIRETGRALQ TFGACKGNGLSLWQRQLQS ECKMAKIMLL VILLFVLSWA PYSAVALVAF AGYAHVLTPTMSSVPAVIAK ASAIHNPIIY AITHPKYRVA IAQHLPCLGVLGVSRHRSPYPSYRSTHRLTLSTHTSNL SWISIRRRQESLGSESEVGW THMEAAAVWG AAQQANGRL YGQGLEDEA KAPPRPQGHE AETPGKTKGL IPSQDPRM</p> <p>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 request, please contact us.</p>

Product Details

Characteristics:	<div>Key Benefits:</div> <ul style="list-style-type: none">• 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).
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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:	OPN4
Alternative Name:	OPN4 (OPN4 Products)
Background:	Melanopsin (Opsin-4),FUNCTION: Photoreceptor that binds cis-retinaldehydes (PubMed:15674244). Contributes to pupillar reflex, photoentrainment and other non-image forming responses to light (By similarity). May be involved in the optokinetic visual tracking response (By similarity). May be involved in the regulation of retinal hyaloid vessel growth and regression (By similarity). {ECO:0000250 UniProtKB:Q9QXZ9, ECO:0000269 PubMed:15674244}.
Molecular Weight:	52.6 kDa
UniProt:	Q9UHM6

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
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Application Details

	guarantee though.
Restrictions:	For Research Use only

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