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## Datasheet for ABIN7538461 **OPN5 Protein**



Overview

Quantity:	50 µg
Target:	OPN5
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

#### **Product Details**

Purpose:	Human OPN5 full length protein-synthetic nanodisc
Characteristics:	Unlike other membrane scaffold protein (MSP) Nanodisc on the market, our synthetic Nanodisc
	can be prepared directly from the cells. The polymers used during this process have a dual
	function. It dissolves the cell membranes, like the detergent, and uses cellular phospholipids to
	form Nanodisc around the membrane proteins. The target protein embedded Nanodiscs can
	then be purified.

### Target Details

Target:	OPN5
Alternative Name:	OPN5 (OPN5 Products)
Background:	Opsins are members of the guanine nucleotide-binding protein (G protein)-coupled receptor
	superfamily. This opsin gene is expressed in the eye, brain, testes, and spinal cord. This gene
	belongs to the seven-exon subfamily of mammalian opsin genes that includes peropsin (RRH)
	and retinal G protein coupled receptor (RGR). Like these other seven-exon opsin genes, this
	family member may encode a protein with photoisomerase activity. Alternative splicing results

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#### Target Details

	in multiple transcript variants. [provided by RefSeq, Jun 2010]
Molecular Weight:	The human full length OPN5 protein has a MW of 39.7kDa
UniProt:	Q6U736

### Application Details

Comment:	Advantages of Synthetic Nanodiscs:
	Highly purified membrane proteins
	High solubility in aqueous solutions
	High stability
	Proteins are in a native membrane environment and remain biologically active
	No detergent and can be used for cell-based assays
	No MSP backbone proteins
	Limitations of Synthetic Nanodiscs:
	Intolerant to acids and high concentrations of divalent metal ions
Restrictions:	For Research Use only
Handling	
Handling Format:	Lyophilized
	Lyophilized Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0).
Format:	
Format:	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0).
Format: Buffer:	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Format: Buffer: Storage:	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5 % - 8 % trehalose is added as protectants before lyophilization. -20 °C,-80 °C
Format: Buffer: Storage:	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0).Normally 5 % - 8 % trehalose is added as protectants before lyophilization20 °C,-80 °CStore at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for