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## Datasheet for ABIN7538156 CASR Protein



#### Overview

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

#### **Product Details**

Purpose:	Human CASR 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:	CASR
Alternative Name:	CASR (CASR Products)
Background:	The protein encoded by this gene is a plasma membrane G protein-coupled receptor that
	senses small changes in circulating calcium concentration. The encoded protein couples this
	information to intracellular signaling pathways that modify parathyroid hormone secretion or
	renal cation handling, and thus this protein plays an essential role in maintaining mineral ion
	homeostasis. Mutations in this gene are a cause of familial hypocalciuric hypercalcemia,

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Target Details	
	neonatal severe hyperparathyroidism, and autosomal dominant hypocalcemia. [provided by RefSeq, Aug 2017]
Molecular Weight:	The human full length CASR protein has a MW of 120.7kDa
UniProt:	P41180
Pathways:	Positive Regulation of Peptide Hormone Secretion, Carbohydrate Homeostasis

## 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	
Format:	Lyophilized
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.
Storage:	-20 °C,-80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for
	use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).
	Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months