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# Datasheet for ABIN7538296

## **GALR2 Protein**



#### Overview

Quantity:	50 µg	
Target:	GALR2	
Origin:	Human	
Source:	Mammalian Cells	
Protein Type:	Synthetic Nanodisc	

#### **Product Details**

Purpose:	Human GALR2 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:	GALR2
Alternative Name:	GALR2 (GALR2 Products)
Background:	Galanin is an important neuromodulator present in the brain, gastrointestinal system, and
	hypothalamopituitary axis. It is a 30-amino acid non-C-terminally amidated peptide that potently
	stimulates growth hormone secretion, inhibits cardiac vagal slowing of heart rate, abolishes
	sinus arrhythmia, and inhibits postprandial gastrointestinal motility. The actions of galanin are
	mediated through interaction with specific membrane receptors that are members of the 7-

	transmembrane family of G protein-coupled receptors. GALR2 interacts with the N-terminal
	residues of the galanin peptide. The primary signaling mechanism for GALR2 is through the
	phospholipase C/protein kinase C pathway (via Gq), in contrast to GALR1, which communicates
	its intracellular signal by inhibition of adenylyl cyclase through Gi. However, it has been
	demonstrated that GALR2 couples efficiently to both the Gq and Gi proteins to simultaneously
	activate 2 independent signal transduction pathways. [provided by RefSeq, Jul 2008]
Molecular Weight:	The human full length GALR2 protein has a MW of 41.7kDa
UniProt:	O43603
Pathways:	cAMP Metabolic Process, Inositol Metabolic Process, Feeding Behaviour

## **Application Details**

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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