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# Datasheet for ABIN7538305 Metabotropic Glutamate Receptor 6 Protein



#### Overview

Quantity:	50 µg
Target:	Metabotropic Glutamate Receptor 6 (GRM6)
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

#### **Product Details**

Purpose:	Human GRM6 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:	Metabotropic Glutamate Receptor 6 (GRM6)
Alternative Name:	GRM6 (GRM6 Products)
Background:	L-glutamate is the major excitatory neurotransmitter in the central nervous system and
	activates both ionotropic and metabotropic glutamate receptors. Glutamatergic
	neurotransmission is involved in most aspects of normal brain function and can be perturbed in
	many neuropathologic conditions. The metabotropic glutamate receptors are a family of G
	protein-coupled receptors, that have been divided into 3 groups on the basis of sequence

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### Target Details

	homology, putative signal transduction mechanisms, and pharmacologic properties. Group I
	includes GRM1 and GRM5 and these receptors have been shown to activate phospholipase C.
	Group II includes GRM2 and GRM3 while Group III includes GRM4, GRM6, GRM7 and GRM8.
	Group II and III receptors are linked to the inhibition of the cyclic AMP cascade but differ in their
	agonist selectivities. Mutations in this gene result in congenital stationary night blindness type
	1B. [provided by RefSeq, May 2018]
Molecular Weight:	The human full length GRM6 protein has a MW of 95.5kDa
UniProt:	015303

## 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
	<ul> <li>No detergent and can be used for cell-based assays</li> </ul>
	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