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Datasheet for ABIN7538253

## G Protein-Coupled Receptor 12 Protein (GPR12)

### Overview

Quantity:	50 µg
Target:	G Protein-Coupled Receptor 12 (GPR12)
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

### Product Details

Purpose:	Human GPR12 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:	G Protein-Coupled Receptor 12 (GPR12)
Alternative Name:	GPR12 ( <a href="#">GPR12 Products</a> )
Background:	Promotes neurite outgrowth and blocks myelin inhibition in neurons (By similarity). Receptor with constitutive G(s) signaling activity that stimulates cyclic AMP production.[UniProtKB/Swiss-Prot Function]
Molecular Weight:	The human full length GPR12 protein has a MW of 36.7kDa

## Target Details

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UniProt: [P47775](#)

## Application Details

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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

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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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.

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Storage: -20 °C,-80 °C

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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.

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Expiry Date: 12 months