



[Go to Product page](#)

Datasheet for ABIN7538289

## GPR83 Protein

### Overview

Quantity:	50 µg
Target:	GPR83
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

### Product Details

Purpose:	Human GPR83 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:	GPR83
Alternative Name:	GPR83 ( <a href="#">GPR83 Products</a> )
Background:	Orphan receptor. Could be a neuropeptide Y receptor.[UniProtKB/Swiss-Prot Function]
Molecular Weight:	The human full length GPR83 protein has a MW of 48.3kDa
UniProt:	<a href="#">Q9NYM4</a>

## Application Details

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Comment:	<p>Advantages of Synthetic Nanodiscs:</p> <ul style="list-style-type: none"><li>• Highly purified membrane proteins</li><li>• High solubility in aqueous solutions</li><li>• High stability</li><li>• Proteins are in a native membrane environment and remain biologically active</li><li>• No detergent and can be used for cell-based assays</li><li>• No MSP backbone proteins</li></ul> <p>Limitations of Synthetic Nanodiscs:</p> <ul style="list-style-type: none"><li>• Intolerant to acids and high concentrations of divalent metal ions</li></ul>
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Restrictions:	For Research Use only
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## Handling

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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