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Datasheet for ABIN7491529

**G Protein-Coupled Receptor 133 Protein (GPR133)**

## Overview

Quantity:	100 µg
Target:	G Protein-Coupled Receptor 133 (GPR133)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic

## Product Details

Purpose:	Human ADGRD1 full length protein-synthetic nanodisc
Characteristics:	Full Length Transmembrane Proteins (synthetic Nanodisc)

## Target Details

Target:	G Protein-Coupled Receptor 133 (GPR133)
Alternative Name:	ADGRD1 ( <a href="#">GPR133 Products</a> )
Background:	<p>GPR133, PGR25</p> <p>Description: The adhesion G-protein-coupled receptors (GPCRs), including GPR133, are membrane-bound proteins with long N termini containing multiple domains. GPCRs, or GPRs, contain 7 transmembrane domains and transduce extracellular signals through heterotrimeric G proteins (summary by Bjarnadottir et al., 2004 [PubMed 15203201]).[supplied by OMIM, Nov 2010]</p>
Molecular Weight:	The human full length ADGRD1 protein has a MW of 96.3 kDa
UniProt:	<a href="#">Q6QNK2</a>

## Application Details

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Application Notes:	<ul style="list-style-type: none"><li>• Applications for VLPs:</li><li>• ELISA</li><li>• SPR affinity analysis</li><li>• Phage display screening</li><li>• Immunization</li><li>• Cell based assays</li><li>• CAR-T cell screening</li><li>• Protein crystal structure analysis</li></ul>
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Comment:	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.
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Restrictions:	For Research Use only
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## Handling

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Format:	Liquid
Buffer:	Supplied in nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0)
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