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Datasheet for ABIN7538364

LPAR1 Protein



Overview

Quantity:	50 μg
Target:	LPAR1
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

Product Details

an LPART full length protein-synthetic nanodisc
e other membrane scaffold protein (MSP) Nanodisc on the market, our synthetic Nanodisc
e prepared directly from the cells. The polymers used during this process have a dual
ion. It dissolves the cell membranes, like the detergent, and uses cellular phospholipids to
Nanodisc around the membrane proteins. The target protein embedded Nanodiscs can
pe purified.
t

Target Details

Target:	LPAR1
Alternative Name:	LPAR1 (LPAR1 Products)
Background:	The integral membrane protein encoded by this gene is a lysophosphatidic acid (LPA) receptor
	from a group known as EDG receptors. These receptors are members of the G protein-coupled
	receptor superfamily. Utilized by LPA for cell signaling, EDG receptors mediate diverse biologic
	functions, including proliferation, platelet aggregation, smooth muscle contraction, inhibition of
	neuroblastoma cell differentiation, chemotaxis, and tumor cell invasion. Many transcript

Target Details

	variants encoding a few different isoforms have been identified for this gene. [provided by
	RefSeq, Oct 2020]
Molecular Weight:	The human full length LPAR1 protein has a MW of 41.1kDa
UniProt:	Q92633
Pathways:	Myometrial Relaxation and Contraction, Smooth Muscle Cell Migration

Comment: Advantages of Synthetic Nanodiscs: Highly purified membrane proteins High solubility in aqueous solutions	Application Detail	S
 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 	Comment:	 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:

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