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Datasheet for ABIN7491751 TRPA1 Protein



Overview

Quantity:	100 µg
Target:	TRPA1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human TRPA1 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:	TRPA1
Alternative Name:	TRPA1 (TRPA1 Products)
Background:	The structure of the protein is highly related to both the protein ankyrin and transmembrane
	proteins. This protein is activated by a large variety of structurally unrelated electrophilic and
	non-electrophilic chemical compounds. Electrophilic ligands activate TRPA1 by interacting with
	critical N-terminal Cys residues in a covalent manner, whereas mechanisms of non-electrophilic
	ligands are not well determined. May be a component for the mechanosensitive transduction

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Target Details	
	channel of hair cells in inner ear, thereby participating in the perception of sounds. Probably operated by a phosphatidylinositol second messenger system.
Molecular Weight:	The human full length TRPA1 protein has a MW of 127.5 kDa
UniProt:	075762

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
	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
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