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## Datasheet for ABIN7491611

# **CLPTM1 Protein**



#### Overview

Quantity:	100 μg
Target:	CLPTM1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc

#### **Product Details**

Purpose:	Human CLPTM1 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:	CLPTM1
Alternative Name:	CLPTM1 (CLPTM1 Products)
Background:	Involved in GABAergic but not glutamatergic transmission. Binds and traps GABAA receptors in the endoplasmic reticulum (ER). Modulates postsynaptic GABAergic transmission, and
	therefore inhibitory neurotransmission, by reducing the plasma membrane expression of these
	receptors. Altered GABAergic signaling is one among many causes of cleft palate. Might
	function as a lipid scramblase, translocating lipids in membranes from one leaflet to the other

Target Details	
	one.
Molecular Weight:	The human full length CLPTM1 protein has a MW of 76.1 kDa
UniProt:	O96005
Application Details	
Comment:	Advantages of Synthetic Nanodiscs:
	Highly purified membrane proteins
	High solubility in aqueous solutions
	High stability
	<ul> <li>Proteins are in a native membrane environment and remain biologically active</li> </ul>
	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