antibodies -online.com





Datasheet for ABIN7538140

ABCG1 Protein



Overview

Quantity:	50 μg
Target:	ABCG1
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human ABCG1 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:	ABCG1
Alternative Name:	ABCG1 (ABCG1 Products)
Background:	The protein is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC
	proteins transport various molecules across extra- and intra-cellular membranes. ABC genes
	are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White).
	This protein is a member of the White subfamily. It is involved in macrophage cholesterol and
	phospholipids transport, and may regulate cellular lipid homeostasis in other cell types

Target Details

Molecular Weight:	The human full length ABCG1 protein has a MW of 75.6 kDa
UniProt:	P45844
Pathways:	Lipid Metabolism

UniProt:	P45844
Pathways:	Lipid Metabolism
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 MOD baskbase proteins.
	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

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for Storage Comment: 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