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Datasheet for ABIN7538384

MC3R Protein



Overview

Quantity:	50 μg
Target:	MC3R
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human MC3R 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:	MC3R
Alternative Name:	MC3R (MC3R Products)
Background:	This gene encodes a G-protein-coupled receptor for melanocyte-stimulating hormone and adrenocorticotropic hormone that is expressed in tissues other than the adrenal cortex and
	melanocytes. This gene maps to the same region as the locus for benign neonatal epilepsy.
	Mice deficient for this gene have increased fat mass despite decreased food intake, suggesting
	a role for this gene product in the regulation of energy homeostasis. Mutations in this gene are

Target Details

	associated with a susceptibility to obesity in humans. [provided by RefSeq, Jul 2008]
Molecular Weight:	The human full length MC3R protein has a MW of 36kDa
UniProt:	P41968
Pathways:	cAMP Metabolic Process

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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