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Datasheet for ABIN7538214 Dopamine Receptor d1 Protein



Overview

Quantity:	50 µg
Target:	Dopamine Receptor d1 (DRD1)
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human DRD1 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:	Dopamine Receptor d1 (DRD1)
Alternative Name:	DRD1 (DRD1 Products)
Background:	This gene encodes the D1 subtype of the dopamine receptor. The D1 subtype is the most
	abundant dopamine receptor in the central nervous system. This G-protein coupled receptor
	stimulates adenylyl cyclase and activates cyclic AMP-dependent protein kinases. D1 receptors
	regulate neuronal growth and development, mediate some behavioral responses, and modulate
	dopamine receptor D2-mediated events. Alternate transcription initiation sites result in two

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Target Details	
	transcript variants of this gene. [provided by RefSeq, Jul 2008]
Molecular Weight:	The human full length DRD1 protein has a MW of 49.3kDa
UniProt:	P21728
Pathways:	cAMP Metabolic Process, Inositol Metabolic Process, Protein targeting to Nucleus, Feeding
	Behaviour, Smooth Muscle Cell Migration, Regulation of long-term Neuronal Synaptic Plasticity

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	

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