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Datasheet for ABIN7538215 Dopamine d2 Receptor Protein



Overview

Quantity:	50 µg
Target:	Dopamine d2 Receptor (DRD2)
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human DRD2 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 d2 Receptor (DRD2)
Alternative Name:	DRD2 (DRD2 Products)
Background:	This gene encodes the D2 subtype of the dopamine receptor. This G-protein coupled receptor
	inhibits adenylyl cyclase activity. A missense mutation in this gene causes myoclonus dystonia,
	other mutations have been associated with schizophrenia. Alternative splicing of this gene
	results in two transcript variants encoding different isoforms. A third variant has been
	described, but it has not been determined whether this form is normal or due to aberrant

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Target Details

	splicing. [provided by RefSeq, Jul 2008]
Molecular Weight:	The human full length DRD2 protein has a MW of 50.6kDa
UniProt:	P14416
Pathways:	Positive Regulation of Peptide Hormone Secretion, Negative Regulation of Hormone Secretion, cAMP Metabolic Process, Inositol Metabolic Process, Regulation of G-Protein Coupled Receptor Protein Signaling, Feeding Behaviour, Negative Regulation of Transporter Activity, 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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