

Datasheet for ABIN7538522 Serotonin Receptor 2B Protein (HTR2B)



Overview

Quantity:	50 µg
Target:	Serotonin Receptor 2B (HTR2B)
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human 5HT2B 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:	Serotonin Receptor 2B (HTR2B)
Alternative Name:	5HT2B (HTR2B Products)
Background:	This gene encodes one of the several different receptors for 5-hydroxytryptamine (serotonin)
	that belongs to the G-protein coupled receptor 1 family. Serotonin is a biogenic hormone that
	functions as a neurotransmitter, a hormone, and a mitogen. Serotonin receptors mediate many
	of the central and peripheral physiologic functions of serotonin, including regulation of
	cardiovascular functions and impulsive behavior. Population and family-based analyses of a

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Target Details

	minor allele (glutamine-to-stop substitution, designated Q20*) which blocks expression of this
	protein, and knockout studies in mice, suggest a role for this gene in impulsivity. However, other
	factors, such as elevated testosterone levels, may also be involved. Alternatively spliced
	transcript variants have been found for this gene. [provided by RefSeq, Mar 2016]
Molecular Weight:	The human full length 5HT2B protein has a MW of 54.3kDa
UniProt:	P41595
UniProt: Pathways:	P41595 JAK-STAT Signaling, Inositol Metabolic Process, Regulation of G-Protein Coupled Receptor

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.
Evpin/Data:	10 months

Expiry Date:

12 months

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