Datasheet for ABIN7596644

Serotonin Receptor 2B Protein (HTR2B) (DYKDDDDK Tag,Strep Tag)

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Overview

Quantity:	10 µg
Target:	Serotonin Receptor 2B (HTR2B)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc
Purification tag / Conjugate:	This Serotonin Receptor 2B protein is labelled with DYKDDDDK Tag,Strep Tag.
Application:	ELISA, Surface Plasmon Resonance (SPR), Phage Display (PhD), Immunogen (Imm), Cryogenic electron microscopy (cryo-EM)

Product Details

Purpose:	Human 5HT2B-Strep full length protein-synthetic nanodisc

Target Details

Target:	Serotonin Receptor 2B (HTR2B)
Alternative Name:	5HT2B (HTR2B Products)
Background:	5-HT(2B), 5-HT-2B, 5-HT2B 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 minor allele (glutamine-to-stop substitution, designated Q20*) which blocks expression of this

Target Details

	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-Strep protein has a MW of 54.3 kDa
UniProt:	P41595
Pathways:	JAK-STAT Signaling, Inositol Metabolic Process, Regulation of G-Protein Coupled Receptor Protein Signaling, Regulation of Carbohydrate Metabolic Process

Application Details

Comment:	Advantages: • 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 • Mammalian cell expression system ensures post- translational modifications
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	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