Datasheet for ABIN7596510

Adenosine A2a Receptor Protein (ADORA2A) (DYKDDDDK Tag,Strep Tag)

Go to Product page

Overview

Quantity:	10 µg
Target:	Adenosine A2a Receptor (ADORA2A)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc
Purification tag / Conjugate:	This Adenosine A2a Receptor protein is labelled with DYKDDDDK Tag,Strep Tag.
Application:	ELISA, Immunogen (Imm), Surface Plasmon Resonance (SPR), Phage Display (PhD), Cryogenic electron microscopy (cryo-EM)

Product Details

Purpose:	Human ADORA2A-Strep full length protein-synthetic nanodisc

Target Details

Target:	Adenosine A2a Receptor (ADORA2A)
Alternative Name:	ADORA2A (ADORA2A Products)
Background:	A2aR, ADORA2, RDC8 A member of the guanine nucleotide-binding protein (G protein)-coupled receptor (GPCR) superfamily, which is subdivided into classes and subtypes. The receptors are seven-pass transmembrane proteins that respond to extracellular cues and activate intracellular signal transduction pathways. This protein, an adenosine receptor of A2A subtype, uses adenosine as the preferred endogenous agonist and preferentially interacts with the G(s) and G(olf) family of G proteins to increase intracellular cAMP levels. It plays an important role in many biological

Target Details

	functions, such as cardiac rhythm and circulation, cerebral and renal blood flow, immune function, pain regulation, and sleep. It has been implicated in pathophysiological conditions such as inflammatory diseases and neurodegenerative disorders. Alternative splicing results in multiple transcript variants. A read-through transcript composed of the upstream SPECC1L (sperm antigen with calponin homology and coiled-coil domains 1-like) and ADORA2A (adenosine A2a receptor) gene sequence has been identified, but it is thought to be non-coding.
Molecular Weight:	The human full length ADORA2A-Strep protein has a MW of 44.7 kDa
UniProt:	P29274
Pathways:	Neurotrophin Signaling Pathway, cAMP Metabolic Process, Synaptic Membrane, Feeding Behaviour, Cancer Immune Checkpoints

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