

[Go to Product page](#)

Datasheet for ABIN7491539

**Adenosine A2a Receptor Protein (ADORA2A)**

## Overview

Quantity:	100 µg
Target:	Adenosine A2a Receptor (ADORA2A)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic

## Product Details

Purpose:	Human ADORA2A full length protein-synthetic nanodisc
Characteristics:	Full Length Transmembrane Proteins (synthetic Nanodisc)

## Target Details

Target:	Adenosine A2a Receptor (ADORA2A)
Alternative Name:	ADORA2A ( <a href="#">ADORA2A Products</a> )
Background:	<p>A2aR, ADORA2,</p> <p>Description: RDC8A 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 functions, such as cardiac rhythm and circulation, cerebral and renal blood flow, immune function, pain regulation, and sleep. It has been implicated in pathophysiological</p>

## Target Details

	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 protein has a MW of 44.7 kDa
UniProt:	<a href="#">P29274</a>
Pathways:	<a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">cAMP Metabolic Process</a> , <a href="#">Synaptic Membrane</a> , <a href="#">Feeding Behaviour</a> , <a href="#">Cancer Immune Checkpoints</a>

## Application Details

Application Notes:	<ul style="list-style-type: none"><li>• Applications for VLPs:</li><li>• ELISA</li><li>• SPR affinity analysis</li><li>• Phage display screening</li><li>• Immunization</li><li>• Cell based assays</li><li>• CAR-T cell screening</li><li>• Protein crystal structure analysis</li></ul>
Comment:	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.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	Supplied in nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0)
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