

## Datasheet for ABIN7538120

### ADORA1 Protein

[Go to Product page](#)

#### Overview

Quantity:	50 µg
Target:	ADORA1
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

#### Product Details

Purpose:	Human AA1R 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:	ADORA1
Alternative Name:	AA1R ( <a href="#">ADORA1 Products</a> )
Background:	The protein encoded by this gene is an adenosine receptor that belongs to the G-protein coupled receptor 1 family. There are 3 types of adenosine receptors, each with a specific pattern of ligand binding and tissue distribution, and together they regulate a diverse set of physiologic functions. The type A1 receptors inhibit adenylyl cyclase, and play a role in the fertilization process. Animal studies also suggest a role for A1 receptors in kidney function and

## Target Details

	ethanol intoxication. Transcript variants with alternative splicing in the 5' UTR have been found for this gene. [provided by RefSeq, Jul 2008]
Molecular Weight:	The human full length AA1R protein has a MW of 36.5kDa
UniProt:	<a href="#">P30542</a>
Pathways:	<a href="#">EGFR Signaling Pathway</a> , <a href="#">Negative Regulation of Hormone Secretion</a> , <a href="#">Synaptic Membrane</a>

## Application Details

Comment:	<p>Advantages of Synthetic Nanodiscs:</p> <ul style="list-style-type: none"><li>• Highly purified membrane proteins</li><li>• High solubility in aqueous solutions</li><li>• High stability</li><li>• Proteins are in a native membrane environment and remain biologically active</li><li>• No detergent and can be used for cell-based assays</li><li>• No MSP backbone proteins</li></ul> <p>Limitations of Synthetic Nanodiscs:</p> <ul style="list-style-type: none"><li>• Intolerant to acids and high concentrations of divalent metal ions</li></ul>
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