

## Product datasheet for **TP721391M**

### ADORA2A Human Recombinant Protein, Membrane Nanoparticle

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human ADORA2A full length protein-Membrane Nanoparticle, 100µg
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	C-terminal Flag tagged overexpression cDNA clone
Tag:	C-term Flag Tag
Predicted MW:	The human full length ADORA2A protein has a MW of 44.7 kDa
Concentration:	Please refer to the Certificate of Analysis (COA) for the lot-specific concentration before lyophilization.
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization.
Reconstitution Method:	<ol style="list-style-type: none"> <li>1. Before opening the tube cap, centrifuge the sample tube at 5000g for 3-5min at room temperature to ensure the lyophilized sample settles down at the bottom of the tube.</li> <li>2. Calculate the volume for reconstitution (in µL) using the formula: [Quantity (mg)/Concentration (mg/mL)]x1000</li> <li>3. Dissolve the lyophilized protein sample in sterile water based on the calculated volume (µL)</li> <li>4. After adding sterile water, cover the lid and mix by gently tapping the tube 5-10 times. Note: Do not vortex or vigorously pipette the sample.</li> </ol>
Storage:	Store at -20°C to -80°C for 12 months in lyophilized form.
Stability:	After reconstitution, if not intended for use within a month, aliquot and store at -80°C . Avoid repeated freezing and thawing.
Locus ID:	135
UniProt ID:	<a href="#">P29274</a>
Synonyms:	A2aR; ADORA2; RDC8
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction



[View online »](#)

## Product images:

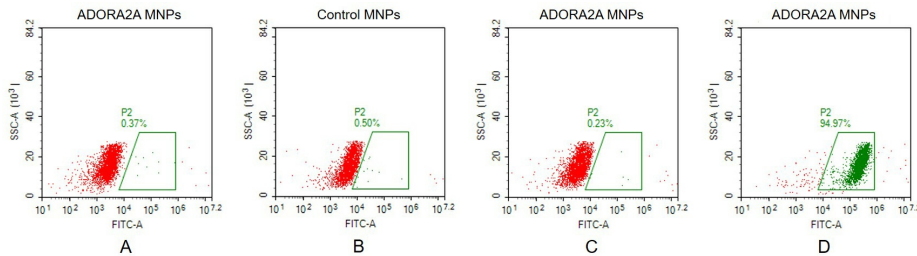


Figure 2. FACS analysis of ADORA2A MNPs A. Negative Control 1: ADORA2A full length membrane nanoparticles samples were stained only with Goat anti-mouse IgG 488 secondary antibody. B. Negative Control 2: Control membrane nanoparticles samples were stained with anti-ADORA2A antibody (R&D systems, MAB9497R) at 2µg/mL, followed by Goat anti-mouse IgG 488 secondary antibody. C. Negative Control 3: ADORA2A full length membrane nanoparticles samples were stained with anti-His antibody (an irrelevant antibody) at 2µg/mL, followed by Goat anti-mouse IgG 488 secondary antibody. D. ADORA2A full length membrane nanoparticles samples were stained with anti-ADORA2A antibody (R&D systems, MAB9497R) at 2µg/mL, followed by Goat anti-mouse IgG 488 secondary antibody.

## ELISA assay to evaluate ADORA2A-MNPs

0.5µg Human ADORA2A-MNPs per well

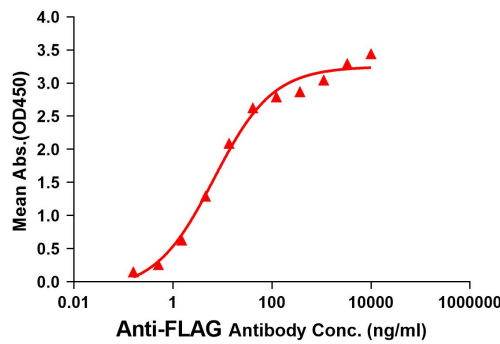


Figure 1. Elisa plates were pre-coated with 0.5µg/per well purified human ADORA2A full length membrane nanoparticles. Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with ADORA2A full length membrane nanoparticles is 6.796ng/ml.