

## A2AR Protein-VLP, Human, Recombinant

### General Information

Synonyms:	RDC8;Adenosine A2a R;ADORA2;ADORA 2;ADORA2A;A2aR
Protein Construction:	Met1-Ser412
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P29274
Molecular Weight:	45.5 kDa (predicted)

### QC Testing

Biological Activity:	Immobilized Human A2AR VLP at 10µg/ml (100µl/Well) on the plate. Dose response curve for Anti-A2AR Antibody, hFc Tag with the EC50 of 0.87µg/ml determined by ELISA.
Purity:	> 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).Notice: If you need it for immunization, Do Not use any adjuvant.

### Preparation and Storage

#### Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Adenosine is a neuromodulator in the adult central nervous system. Membrane-bound receptors for adenosine have been identified and cDNAs for A1, A2a, A2b, and A3 adenosine receptor subtypes have been cloned recently. Expression of A2a adenosine receptor mRNA in cranial ganglia, carotid body, and intermediate lobe of the pituitary gland similarly suggests novel sites of adenosine action during development and in the adult.

#### Reference

Weaver DR. A2a adenosine receptor gene expression in developing rat brain. Brain Res Mol Brain Res. 1993 Dec;20(4):313-27. doi: 10.1016/0169-328x(93)90058-w. PMID: 8114618.

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