Human A2AR Protein-Nanodisc

Cat. No. A2R-HM1N1

Description

Source	Recombinant Human A2AR Protein-Nanodisc is expressed from HEK293 with His tag at the C-terminus.
	It contains Met1-Ser412.
Accession	P29274
Molecular Weight	The protein has a predicted MW of 45.5 kDa.
Endotoxin	Less than 1 EU per μg by the LAL method.

Formulation and Storage

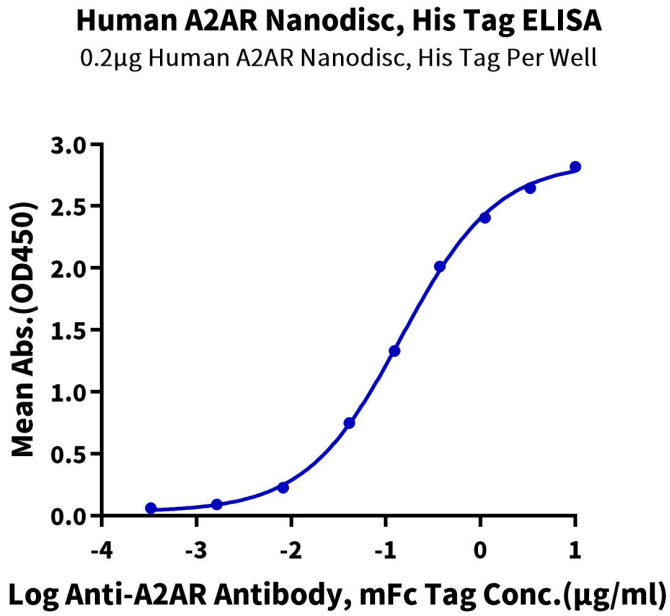
Formulation	Supplied as 0.22 μm filtered solution in PBS, 200mM L-Arginine (pH 7.4). Notice: Not recommended for flow cytometry in mammalian cells.
Storage	Valid for 6 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

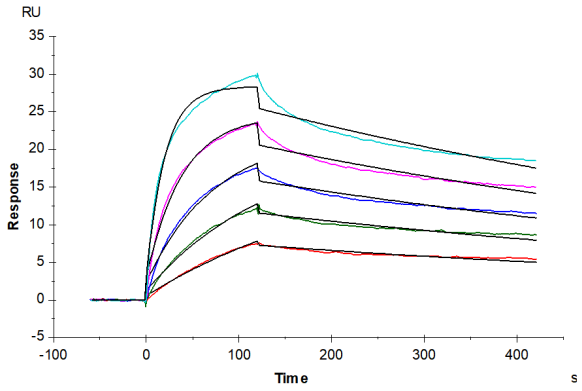
Assay Data

ELISA Data



Immobilized Human A2AR Nanodisc, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Anti-A2AR Antibody, mFc Tag with the EC50 of 0.15μg/ml determined by ELISA.

SPR Data



Human A2AR Nanodisc, His Tag captured on CM5 Chip via Anti-his antibody can bind Anti-A2AR Antibody, mFc Tag with an affinity constant of 0.32 nM as determined in SPR assay (Biacore T200).

BLI Data

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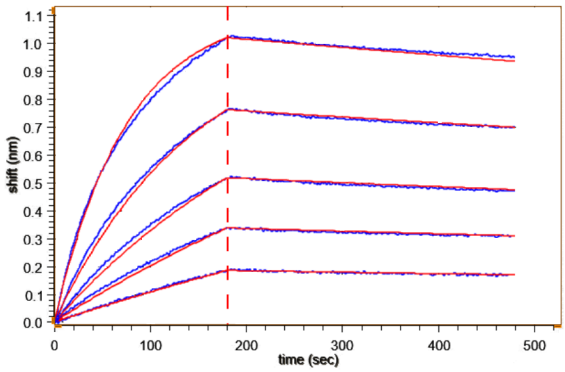
Assay Data



Loaded Anti-A2AR Antibody on Protein A-Biosensor, can bind Human A2AR Nanodisc, His Tag with an affinity constant of 4.44 nM as determined in BLI assay (Gator).

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