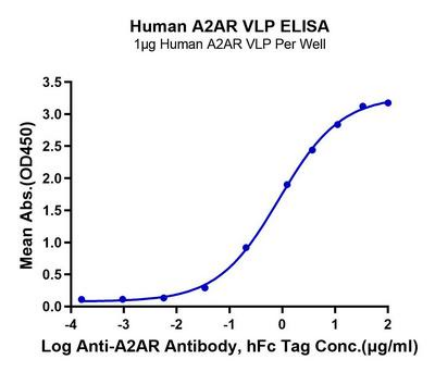
HuPro®

ADORA2A (Human) Recombinant Protein

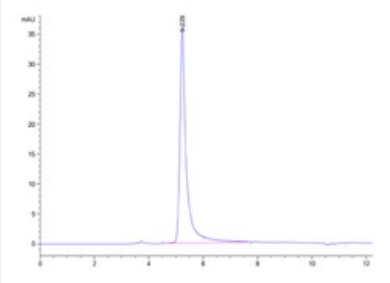
Catalog # P9759 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

Immobilized Human A2AR VLP at 10 ug/mL (100 uL/Well) on the plate. Dose response curve for Anti-A2AR Antibody, hFc Tag with the EC50 of 0.87 ug/mL determined by ELISA.



SEC-HPLC

The purity of Human A2AR VLP is greater than 95% as determined by SEC-HPLC.

Specification

Product Description	Human ADORA2A (P29274, Met1-Ser412) partial recombinant protein expressed in HEK293 cells.
Sequence	Met1-Ser412
Host	Human
Theoretical MW (kDa)	45.5
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system

Quality Control Testing	SEC-HPLC SEC-HPLC The purity of Human A2AR VLP is greater than 95% as determined by SEC-HPLC.
Recommend Usage	Biological Activity ELISA The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS pH 7.4
Storage Instruction	Store at -80°C for 12 Month. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human A2AR VLP at 10 ug/mL (100 uL/Well) on the plate. Dose response curve for Anti-A2AR Antibody, hFc Tag with the EC50 of 0.87 ug/mL determined by ELISA.

- Functional Study

Gene Info — ADORA2A

Entrez GeneID	135
Protein Accession#	P29274
Gene Name	ADORA2A
Gene Alias	ADORA2, RDC8, hA2aR
Gene Description	adenosine A2a receptor
Omim ID	102776
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein which is one of several receptor subtypes for adenosine. The activity of the encoded protein, a G-protein coupled receptor family member, is mediated by G proteins w hich activate adenylyl cyclase. The encoded protein is abundant in basal ganglia, vasculature and platelets and it is a major target of caffeine. [provided by RefSeq
Other Designations	adenosine A2 receptor|adenosine receptor subtype A2a

Pathway

- Calcium signaling pathway
- Neuroactive ligand-receptor interaction
- Vascular smooth muscle contraction

Disease

- Amphetamine-Related Disorders
- Anorexia Nervosa
- Anxiety Disorders
- Arousal
- Arthritis
- Asthma
- Atherosclerosis
- Autistic Disorder
- Bulimia
- Calcinosis
- Cardiovascular Diseases
- Cognition
- Coronary Artery Disease
- Depressive Disorder
- Diabetes Mellitus
- Drug Hypersensitivity
- Drug Toxicity
- Edema
- Fatigue

- Genetic Predisposition to Disease
- Headache
- Huntington disease
- Hypertension
- Mental Disorders
- Migraine with Aura
- Mood Disorders
- Neuropsychological Tests
- Panic Disorder
- Parkinson disease
- Personality Inventory
- Psychiatric Status Rating Scales
- Psychomotor Performance
- Psychoses
- Reaction Time
- Schizophrenia
- Schizophrenic Psychology
- Sleep
- Sleep Disorders
- Sleep Initiation and Maintenance Disorders
- Substance Withdrawal Syndrome
- Substance-Related Disorders
- Syncope
- Weight Gain